

St. Andrews Presbyterian College



Directory of Correspondence

St. Andrews Presbyterian College
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General Information
President of the College

Admission, Scholarships, Financial Aid
Director of Admissions

Financial or Business Matters, Methods of Payment
Business Manager

Student Activities, Residence Hall Rooms
Dean of Students

Courses of Instruction, Other Academic Matters
Dean of the College

Transcripts, Records of Students, Summer School
Registrar

Employment of Seniors, and Alumni
Director of Placement

Gifts, Bequests, and Alumni Affairs
Vice President for Development

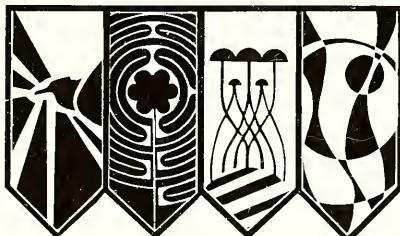
Visitors to the campus are welcome. The offices of the College are open from 9 a.m. to 5 p.m. Monday through Friday. Appointments in the Office of Admissions are scheduled from 9 a.m. to 4 p.m. weekdays and on Saturday mornings.

St. Andrews is an affirmative action institution. As such, it does not discriminate on the basis of race, sex, creed, national origin, or physical handicap in the administration of its educational policies, admissions policies, scholarship and loan programs, athletic and other college-administered programs.



St. Andrews Presbyterian College

Laurinburg, North Carolina



1977-78

Some of the leading thinkers in America today believe that as a result of our constant mobility, our quest for privacy, and our obsession for convenience, we as a society, have lost our sense of community.

As a result of this loss, many people experience a growing distrust in institutions, including government, church, schools and colleges. A reasonable level of skepticism may prove to be good for society, but skepticism distorted to distrust signals a profound crisis in personal and social values, especially for young adults. In what and in whom are we to place our confidence?

This value crisis constitutes our greatest problem in America, and higher education can perform its greatest service by increasing its emphasis on value education. The church-related, liberal arts college is distinctively equipped to offer just such a balanced education, which includes the accumulation of knowledge, preparation for a career, and learning how to make value judgments.

Learning is primary. As John Stuart Mill said over a century ago, "Men are men (and, he would say today, 'women are women') before they are lawyers or physicians, or merchants, or manufacturers, and if you make them capable and sensible men they will make themselves capable and sensible lawyers and politicians . . ."

Career preparation is no longer determined by a fixed set of vocational skills to be made obsolete by technology and time. A trained and critical mind, a sensitive and free imagination, and confident and articulate self-expression are skills ever in demand. St Andrews seeks for its students this "rust-proof" preparation for careers.

However, education must equip us to want more and to do more than merely earn a living. St. Andrews expects of its students liberal learning as well as skills development, and cultural awareness as well as career planning. St. Andrews seeks to develop valuing — a process of insight, judgment, commitment, and in its highest expressions, wisdom.

St. Andrews invites you to join in a bold experiment in Christian higher education.

(Adapted from the Inaugural Address of A.P. Perkinson, Jr., President)

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College Aim

St. Andrews Presbyterian College is a four-year, co-educational, liberal arts college. It was established by the Presbyterian Synod of North Carolina to affirm the continuing relevance of Christian higher education. By its innovative program the College is committed to meeting the academic and personal needs of students and to helping students to prepare for effective living in a constantly changing world.

Firmly rooted in the liberal arts tradition, the College expects that each student will develop:

- (1) A disciplined and inquiring mind enabling clear thinking and effective communication.
- (2) An informed awareness of major achievements in our culture and other cultures.
- (3) An increased sensitivity to human needs and concern for social justice.
- (4) A growing refinement of sensibility and taste in the arts and literature.
- (5) A clear understanding of the role of the sciences in creating a humane environment for the world.
- (6) A deepening personal faith that results in responsible living.
- (7) An intelligent concern for democratic values in personal, national, and international relations.
- (8) A maturing desire for continued intellectual, moral, and spiritual growth beyond the college years.
- (9) A dedication to physical and emotional health and vitality.
- (10) A clear sense of vocation for stewardship of life.

Heritage

St. Andrews began in 1961 as a new college with a long and respected tradition.

The tradition came from its predecessor institutions, Flora Macdonald College and Presbyterian Junior College for Men. Flora Macdonald College was founded in Red Springs by the Fayetteville Presbytery in 1896. First called Red Springs Seminary, the name was changed in 1903 to Southern Presbyterian College and Conservatory in Music. In 1914 the name was changed to honor the colorful Scots heroine, Flora Macdonald. This college under several names made signal contribution to the Christian education of young women until it became part of St. Andrews. In 1928 the Synod of North Carolina authorized the establishment of the Presbyterian Junior College for Men in Maxton, and that institution rendered valuable service to North Carolina until it became part of St. Andrews.

In the early 1950's Presbyterians of the state were faced with the problem of insufficient financial resources for its several colleges. They obtained a grant from the Ford Foundation to survey higher education in the Synod of North Carolina. As a result of this study, the Synod decided in 1955 to merge several colleges into one new college at a new site. A new board of trustees was elected with representatives from merging schools and a new school was chartered by the State of North Carolina in 1950.

Another grant enabled the Synod to plan a new college of high quality and Christian purpose, and with contemporary style and design. In 1960, the new college was named St. Andrews to mark its Presbyterian heritage and to identify it with the University of St. Andrews, a leader of Christian education in Scotland.

Since its opening in 1961 St. Andrews has distinguished itself as a pioneer in innovative Christian higher education. With its interdisciplinary emphases in the humanities and sciences, its contemporary and award-winning campus design, its openness to the physically handicapped, and its commitment to value-oriented learning for the future, St. Andrews has become a nationally recognized new college with a significant history.



Accreditation

St. Andrews is accredited by the Southern Association of Colleges and Schools. The College is an institutional member of the National Association of Schools of Music and the American Association of Colleges for Teacher Education. It also holds membership in the Association of American Colleges, the North Carolina Association of Colleges and Universities, and the North Carolina Association of Independent Colleges and Universities. The St. Andrews athletic program is approved by the National Collegiate Athletic Association and the College has full membership in the NCAA. The College's women graduates qualify for membership in the American Association of University Women.

Campus

St. Andrews lies on the south side of Laurinburg, twice an "All-America" city and the county seat of Scotland County. Its location at the edge of the famous Sandhills country gives students a pleasant setting for study and recreation. Laurinburg's climate is similar to that of nearby winter resorts of Southern Pines and Pinehurst. Laurinburg is at the junction of U.S. routes 401, 15, 501, and 74. These arteries, plus bus service and proximity to air service, make Laurinburg accessible from all parts of the country. The College is served by the Seaboard Coast Line Railroad via Hamlet and Fayetteville, and by Piedmont Airlines through Fayetteville. Laurinburg-Maxton Airport, a general aviation field with 6,500-foot runways, is within six miles of the campus.



Facilities

One of the chief attractions of the College is its new, contemporary style campus situated on 820 acres of rolling land. Leading educational consultants were employed to work with expert architects and landscape architects to translate educational philosophy into modern construction. Design of the campus won for its architects a first-place citation in national competition.

Most of the campus buildings are grouped on the northern and southern banks of a 70-acre lake, Lake Moore, honoring the College's first president, Dr. Ansley C. Moore. Major buildings for academic work are on the southern side; facilities for student housing, recreation, and extracurricular activities are located on the northern side. A causewalk restricted to pedestrians links the two areas. All permanent buildings are linked to a central air-conditioning and heating system. Every building has ramps and other design features for students with physical limitations. Provision has been made for audio-visual instruction throughout the campus.

THE DE TAMBLE LIBRARY is a handsome three-story building at lakeside. Gifts for its construction came from many sources, the largest from the First Presbyterian Church of Winston-Salem out of the F. J. De Tamble legacy, with others from the Z. Smith Reynolds and Mary Reynolds Babcock Foundations.

At St. Andrews the library is central to the educational process. Its more than 88,000 volumes, 5,500 reels of microfilm, and over 600 periodicals and newspapers have been chosen to support intellectual development of students and faculty. The library is open 81 and 1/2 hours a week. Students have free access to the stacks with a variety of reading and study settings available.

Special collections include a music collection of nearly 1,600 scores and more than 1,500 phono-records with listening facilities, and the Scottish and Rare Book Collection. The library is a Selection Depository Library for U. S. government documents.

THE LIBERAL ARTS BUILDING contains 18 lecture-classrooms, six art studios for painting, sculpture, ceramics and photography, a 200-seat theatre, an experimental psychology laboratory, a faculty lounge, 38 faculty offices, an exhibition lobby area, two enclosed courtyards, and administrative offices.

THE MORGAN-JONES SCIENCE CENTER, including the John Blue Laboratory, is designed to provide facilities for a unique science program. On the upper level is the 255 × 80-foot multi-disciplinary laboratory, the instrumentation room containing a nuclear magnetic resonance spectrometer and an electron microscope, and other sophisticated equipment, facilities for radiation experimentation, four large growth chambers, a self-service stock room, shops for wood-working, metal working, and glass-blowing, and four seminar rooms. The lower level, facing the lake, contains fourteen large faculty teaching offices designed for individual and small group instruction, and six seminar rooms.

THE AVINGER AUDITORIUM, made possible by a gift from Mrs. George F. Avinger in memory of her husband, connects the Science Center and the Liberal Arts Building. Designed as a teaching auditorium, it seats up to 400 people. Equipment for audio-visual instruction includes three projectors and screens ready for simultaneous use when desirable.

THE VARDELL BUILDING, houses faculty offices for art, music and theatre and contains a choral auditorium, a theatre workshop, music studios and practice rooms, the music library and listening room, and an art gallery.

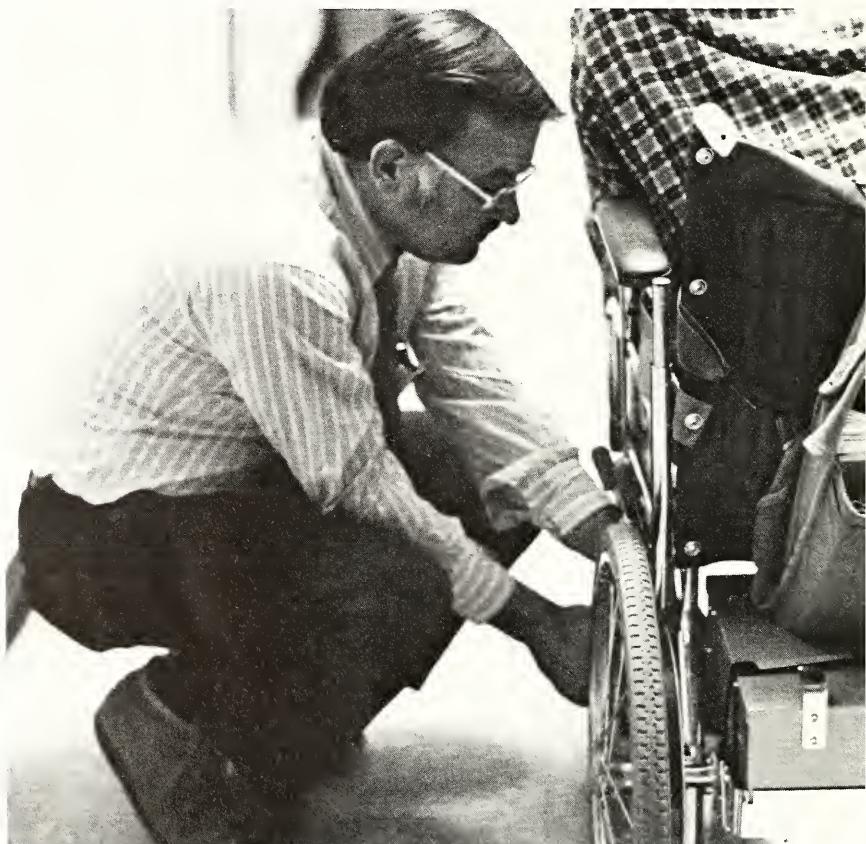
THE COLLEGE UNION overlooks the lake on the residential side of the campus. The center of campus social life, it houses a student lounge, the Red Lion Snack Bar, post office, student book store, student activity offices, cafeteria, and offices of Student Personnel Services.

THE EIGHT DORMITORIES are single-and multiple-story to accommodate 96 and 114 students to a building. One outstanding feature of all dormitories, especially conducive to developing a spirit of cooperative student living, is the suite, a small group unit accommodating 12 or 16 students. These units include bedrooms, bath, and a lounge. Laundry facilities are conveniently located in each dormitory. In addition each dormitory has a reception area, common lounge, and residence hall director's apartments. Some dormitories have guest rooms.

THE PHYSICAL EDUCATION CENTER is conveniently located between two residence areas. Designed to undergird the St. Andrews program of athletics for men and women with an emphasis on lifetime sports, it is a focal point of student life. The Harris Basketball Court has a seating

capacity of 1,200. The Olympic-size O'Herron Swimming Pool is available for year-round use, as are the bowling alleys, handball courts, game room, wrestling and weight rooms. Offices for the physical education staff, provided by the McNair family, are next to three classrooms. Other facilities include lockers and dressing rooms and accommodations for visiting teams. Near the Center and dormitories are outdoor physical educational facilities: an all-weather track, Clark Field for baseball, lighted all-weather tennis courts, soccer and hockey fields, and a golf practice area with a par-three course of seven holes.

THE BURRIS REHABILITATION CENTER, made possible by a gift from Mr. Jack R. Burris, Sr., of High Point, North Carolina, is a new 9,000 square foot facility. It provides a combination of services in one central location. All college students use the Center for general medical services and two double rooms provide for overnight care. Additional space is devoted to seven double rooms for handicapped students and their student roommate-aides. Two one-room efficiency apartments are also provided for training in independent living during the senior year.



The Faculty

St. Andrews regards its faculty as the most important learning resource of the College and provides a highly qualified group of men and women dedicated to the fullest intellectual and personal growth of students. The College seeks for its faculty those scholar-teachers with exceptional preparation in academic disciplines, with interdisciplinary interests and competence, and with a deep commitment to undergraduate teaching.

The present faculty of St. Andrews represents a wide array of educational backgrounds and experience. The fifty full-time members of the faculty have earned degrees from more than eighty colleges and universities located in twenty-seven states. The faculty holds eighty-six graduate degrees, including thirty-eight doctorates and several other terminal degrees. More than half of faculty membership has studied and traveled extensively in Africa, Asia, Europe, and Latin America.

But the faculty is not content to rest on academic laurels. It considers continuing professional growth and scholarly productivity essential for maintaining intellectual vitality and creative teaching. During the past academic year (1976-1977) members of the faculty published twenty-three scholarly articles and reviews, gave twenty-four presentations at professional meetings, attended forty-six seminars, institutes, and workshops, and gave fourteen lectures at other colleges and universities. In recent years, ten members of the faculty have received awards for which there was national competition, including fellowships from the National Endowment for the Humanities and the National Science Foundation. Members of the faculty serve as Danforth Foundation Associates, as consultants to the Small Business Institute and the Environmental Protection Agency, and serve as consultants to other colleges in the areas of interdisciplinary curriculum development, science education and facilities, and intercultural studies.

While professional competence and achievements have high priority for the St. Andrews faculty, excellence of teaching in an informal environment where personal relationships with students are valued, has highest priority. Academic discipline tempered by friendship and good humor is the faculty style. A faculty student ratio of one-to-twelve and an average faculty age of forty years encourages this style of teaching and learning.

College Calendar

1977-78

St. Andrews follows an academic calendar and program popularly known as the 4-1-4 program. This calendar divides the academic year into three terms — two four-month terms separated by a one-month term. Students take four courses in the fall and spring terms and one course in the winter term. The fall term begins early in September and ends with the Christmas vacation, the winter term extends throughout January, and the spring term begins in February and ends in late May or early June.

The winter term stresses experiential learning through independent study, seminar work, and off-campus activities. Students and faculty concentrate their interest and attention upon one subject in this term and have an opportunity for many educational activities not possible in the more conventional academic program. There is a wide range of cooperation with other colleges having the 4-1-4 program.

Calendar for 1977-78

FALL TERM

September 3-4	Saturday-Sunday	Parents Orientation
September 3-6	Saturday-Tuesday	New Student Orientation
September 7	Wednesday	Fall Term Registration
September 8	Thursday (8:30 a.m.)	Classes begin
September 15	Thursday (5:00 p.m.)	Last day to add a course for Fall Term
October 4	Tuesday	Registration for off-campus Winter Term courses
October 6	Thursday (5:00 p.m.)	Spring Term & Summer Term grades of "I" and "E" become "F" if not removed
October 14	Friday (5:20 p.m.)	Fall recess begins
October 19	Wednesday (8:30 a.m.)	Fall recess ends
October 27	Thursday	Registration for Winter Term courses
October 28	Friday (5:00 p.m.)	Mid-Term grades due
November 14	Monday (8:30 a.m.)	First day to change grading option for a course
November 17	Thursday	Advanced registration for Spring Term
November 22	Tuesday (5:20 p.m.)	Thanksgiving recess begins
November 28	Monday (8:30 a.m.)	Thanksgiving recess ends
December 1	Thursday (5:00 p.m.)	Last day to drop a course & last day to change grading option for a course

December 15	Thursday (5:20 p.m.)	Last class day of Fall Term
December 16, 17	Friday, Saturday,	Fall Term final examinations
19, 20, 21	Monday, Tuesday, Wednesday	

WINTER TERM

January 9	Monday (8:30 a.m.)	Winter Term begins
January 10	Tuesday (5:00 p.m.)	Last day to add or drop a course for Winter Term
February 3	Friday (5:00 p.m.)	Winter Term ends
February 6	Monday (5:00 p.m.)	Fall Term grades of "I" become "F" if not removed
February 10	Friday (5:00 p.m.)	Winter Term grades due

SPRING TERM

February 7	Tuesday	Orientation of New Students
February 7	Tuesday	Spring Term Registration
February 8	Wednesday (8:30 a.m.)	Classes begin
February 15	Wednesday (5:00 p.m.)	Last day to add a course for Spring Term
March 6	Monday (5:00 p.m.)	Winter Term grades of "I" become "F" if not removed
March 23	Thursday (5:00 p.m.)	Mid-Term grades due
March 24	Friday (5:20 p.m.)	Spring recess begins
April 3	Monday (8:30 a.m.)	Spring recess ends
April 20	Thursday (8:30 a.m.)	First day to change grading option for a course
April 26	Wednesday	Advanced registration for Fall Term, 1978
May 3	Wednesday (5:00 p.m.)	Last day to change grading option for a course & last day to drop a class
May 17	Wednesday (5:20 p.m.)	Last class of Spring Term
May 18, 19	Thursday, Friday	Spring Term final examinations
May 20, 22, 23	Saturday, Monday, Tuesday	
May 23	Tuesday (5:20 p.m.)	Spring Term ends
May 27	Saturday	Commencement

SUMMER TERM

June 12	Monday (8:30 a.m.)	First Summer Session begins
July 14	Friday (5:00 p.m.)	First Summer Session ends
July 17	Monday (8:30 a.m.)	Second Summer Session begins
August 18	Friday (5:00 p.m.)	Second Summer Session ends

Admissions

Cost

Academic Scholarships

Endowed Scholarships and Loans

Financial Aid

Admissions

The student interested in attending St. Andrews as a freshman should submit an application early in the senior year of high school. While there is no application deadline, places in next year's freshman class are filled throughout the year, but primarily in the fall and winter. St. Andrews Presbyterian College admits students of any race, color, sex and national or ethnic origin.

St. Andrews requires an official high school transcript, and scores from either the Scholastic Aptitude Test (SAT) of the College Entrance Examination Board or the American College Testing Assessment Program (ACT), and a fifteen dollar application fee.

No specific grade average in high school or test result assures admission to the College. Each applicant's total record is evaluated before admission is approved or denied. In addition to the high school academic record and test results, major factors considered include rank in class, subjects studied, proficiency in English, personal attributes, and interests and involvements in school and community activities.

College preparation should emphasize traditional academic subjects. Recommended high school credits include four units of English, two or more units of a foreign language, three units of mathematics (two of algebra and one of plane geometry), two units of social sciences, two units of natural sciences, and two or more units in electives. An applicant who has not taken all the recommended subjects will not be denied admission for this reason alone, provided course credits are reasonably similar to those recommended.

When an applicant's credentials are completed, they are presented to the Admission Committee at its weekly meeting. Notice of the Committee's decision is mailed on the following day.

Early Admission And Deferred Admission of Freshmen

St. Andrews offers an early admission option for the academically strong student with approval of the high school guidance counselor. A

student may seek early admission to the College at the end of the junior year of high school if he or she has completed senior English.

College Credit Through Examination

St. Andrews participates in both the Advanced Placement Program and the College Level Examination Program (CLEP) of the College Entrance Examination Board. Students achieving a score of three or above on any Advanced Placement Program examination will receive college credit in the subject at St. Andrews, while those achieving a score of two on any of these examinations may be placed in an advanced course in the subject. Students may receive course credits for individual CLEP Subject Examinations by scoring at the 50th percentile or above. Students may receive sophomore standing (credit for nine courses) by scoring at the 50th percentile or above on the CLEP General Examinations.

Application for Transfer

St. Andrews accepts transfer students from accredited colleges and universities into any class. In support of an application, the College requires an official transcript of the academic record from each college or university attended. Also see "Transfer Credits," p. 34.

Application by Graduates of Junior and Community Colleges

Graduates of junior colleges and two-year community colleges who have completed a liberal arts program and received the Associate of Arts degree can expect junior standing as transfer students at St. Andrews.

Application by the Physically Handicapped

St. Andrews requires applicants who are physically handicapped to follow certain additional procedures for admission. Detailed information is available from the Director of Rehabilitation Services.

Application by Foreign Students

Foreign students applying for admission to St. Andrews may submit the results of the Test of English as a Foreign Language (TOEFL) or scores from the SAT or ACT.

Campus Visits

Prospective students and their parents are encouraged to visit the St. Andrews campus to discuss the College and its programs and to familiarize themselves with the campus. The College recommends planning such visits during the regular academic year when the full complement of students, faculty, and administrators is available to answer questions.

Cost

The College automatically classifies each student whose permanent residence is beyond commuting distance from the campus as a resident student unless he or she receives written approval as a non-resident student. Students may apply for non-resident status through the Office of the Dean of Students. When non-resident status is approved after the beginning of a term, charges are prorated according to the time spent in each status.

Cost for Resident Students (Both In-State and Out-of-State)

Tuition	\$2,450
Room (double occupancy)	490
Board (seven days a week)	795
Total	\$3,735

By action of North Carolina General Assembly a \$300 grant is made to each North Carolina student enrolled at St. Andrews for the 1977-78 academic year.

Cost for Non-Resident Students (Both In-State and Out-of-State)

Tuition	\$2,450
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Additional expenses will be incurred for books, laundry, and incidentals.

Schedule of payments of the Fees

For resident students

Room reservation deposit due May 1 (non-refundable after June 1)	\$ 100
Balance of Fall/Winter term fees due July 15	1,955
Spring term fees due December 15	1,680
	<u>\$3,735</u>

For non-resident students

Fall/Winter term fees due July 15	\$1,348
Spring term fees due December 15	1,102
	<u>\$2,450</u>

Any other arrangement for payment must be made with the College Business Office prior to registration. Financing plans available through private companies have enabled many students to arrange their payments to fit more conveniently with family budgets. For information, contact the College Business Office.

Summer Term Fees (June to August 1977)

Charges per five-week session:

Tuition per course	\$185
Room and board	275
Music fees:	
For two one-hour lessons per week	110
For one one-hour lesson per week	55
For one half-hour lesson per week	30
Campus Post Office Box Fee	2

Expenses for Physically Handicapped Students

Physically handicapped students, their parents, and vocational rehabilitation counselors should contact the Director of the Rehabilitation Services at St. Andrews for special services to the handicapped. The added expenses for the physically handicapped student range from \$387 to \$3,870 for the academic year. The specific amount is based upon the services required.

Student Accident and Sickness Insurance

St. Andrews makes available each year a low-premium accident and sickness insurance plan to full-time students through the cooperation of a commercial insurance company. The College recommends strongly that parents secure such protection for their sons and daughters if adequate coverage is not provided through family or individual insurance programs. A letter and brochure explaining this plan will be mailed to every student following his or her acceptance.

Security Deposit

Each student will pay a \$50 refundable Security Deposit. Those who already have a Housing Damage Deposit with the College need not make additional deposit, as this will serve as the Security Deposit. All other full-time students will be billed for the Security Deposit which will be retained during the student's tenure at St. Andrews, and refunded within one month after graduation or other advice of termination. Final charges will be assessed against the deposit, the balance refunded.

Laundry Rental Service

A laundry rental service is available. Information describing this service will be sent to a student after he or she has paid the room reservation deposit.

Winter Term Food Credit

Each boarding student participating in a St. Andrews winter term

catalog course in which the enrolled group will be away from our campus for more than three days will receive a credit for the meals missed thereby. No action will be required by the student.

Credit will also be given to each boarding student taking an approved winter term exchange course at another institution or a guided independent study off-campus, provided the student submits to the College Business Office, prior to the start of the winter term, a request showing the approval of his faculty adviser and the registrar.

The credit will be applied to the student's account in January rather than being refunded prior to the trip. The credit will be calculated at the rate of \$2.20 per day, counting breakfast, lunch, and dinner at 1/6, 2/6, and 3/6 of a day, respectively.

Cancellation of Registration, Withdrawals, and Refunds

Students who register in the advanced registration period will be considered registered for billing purposes unless a formal cancellation of registration is filed with the registrar. On or after the first day of classes, an enrolled student leaving the College must follow the prescribed withdrawal procedure. Information on the procedure for withdrawal from the College and related refunds is given in the section "Academic Information."

Refund Insurance

Withdrawals and other absences do not reduce the operating costs of the College because commitments for salaries and other operating costs are on an annual basis. For this reason the College has found it necessary to restrict its refund period to the first three weeks of the fall and spring terms. (See "Withdrawal from the College," page 33). However, parents who wish to insure against unforeseen contingencies which could cause the student to leave school later in the academic period may obtain refund insurance to cover the major causes of separation. Coverage is available on an optional basis, only at the scheduled time of registration, for a fee of \$55 for the combined fall and winter terms and \$45 for the spring term. Further information is available from the College Business Office.

Schedule of Payment of Other Fees

Other fees and charges which may apply, are due when they are assessed and are payable at the College Business Office. Continuous non-payment will result in penalties including withholding of transcripts and preventing subsequent registration for classes at the College.

Other Fees

Music Fees (cost per term, fall or spring)	
One hour or more of lessons per week	\$130
One half-hour lesson per week	65
Accompanist	15
Rental of instruments (per instrument)	10
Late Registration Fee (Applies if a student fails to complete registration and pay fees before the first day of classes)	15
Change of Schedule Fee (Applies for changes in a program of courses after the approved drop-add period)	
Per course added	5
Per course dropped	1
Course Fee for a Reduced Load (Charge for less than three courses in the fall or spring term or for one course during the winter term)	
Fee per course	350
Campus Post Office Box Fee (Required of all students enrolled in any course)	2
Graduation Fee (required of all graduating seniors)	20



Academic Scholarships

St. Andrews seeks to encourage and formally recognize superior academic achievement through scholarship awards. Because of the high standards of selectivity set by the Awards Committee, these scholarships carry a sense of prestige for scholarship and leadership. The following awards are granted without regard to financial need:

The St. Andrews Distinguished Scholars Award — Ten competitive scholarships awarded annually to entering freshmen on the basis of superior academic achievement and outstanding citizenship with annual stipends of \$2,000.00 for each of the four years.

St. Andrews Honors Scholarships — Fifteen competitive scholarships awarded annually to entering freshmen on the basis of their academic achievement and outstanding citizenship in high school with an annual stipend of \$1,000.00.

The Outstanding Freshman Scholarships — Up to thirty scholarships may be awarded to entering freshmen who have demonstrated academic achievement and potential for excellence at the college level. The stipend for this scholarship will be \$500.00 for one year only.

The St. Andrews Transfer Scholarships — Ten scholarships awarded annually to junior and senior college transfer students on the basis of superior academic achievement and outstanding citizenship. The annual stipend for this scholarship is \$1,000.00.

Other St. Andrews scholarships for qualified students include the Robert C. and Sadie G. Anderson Scholarships, the Reader's Digest Endowed Scholarship, and Lettie Pate Whitehead Scholarships, the Algernon Sydney Sullivan and Mary Mildred Sullivan Scholarships, and the Lucy Steele Memorial Scholarships for North Carolina Presbyterians interested in a church vocation.

Academic scholarships are renewable automatically if the recipient continues to meet the scholastic and citizenship conditions outlined for each particular scholarship. As a general rule, academic scholarship recipients must maintain a cumulative grade average of at least 3.0 and must exhibit evidence of good citizenship.

A listing of the current recipients of the Distinguished Scholars Awards and Honors Scholarships may be found on page 35 of this catalog.

Financial Aid

St. Andrews believes that the primary financial responsibility for a student's education lies with the student and the student's family. However, effort will be made to see that no academically qualified student is denied a St. Andrews education for lack of funds.

Gifts from churches and friends of St. Andrews, together with general funds administered by the College, make possible a financial aid program to meet demonstrated needs of about 45 percent of our students. The awards vary from several hundred dollars to full cost.

All forms of financial aid at St. Andrews are based on need. Students of exceptional academic ability are eligible for certain scholarships and a few specialized work grants regardless of demonstrated need. Information about such scholarships is included in this section of the Catalog.

Application for Financial Aid

A student seeking financial aid should apply simultaneously for admission and financial aid. The Financial Aid Form (FAF) must be filed with the College Scholarship Service designating St. Andrews as the recipient. This form is used by the dependent and the self-supporting student. An aid applicant may submit the Family Financial Statement to the American College Testing Student Need Analysis Service. These statements are available from high school guidance counselors and principals or from the Office of Admissions. Financial aid application forms should be completed by April 1, to be assured consideration; however, applications for financial aid will be considered whenever they are received. The Director of Financial Aid will notify each applicant immediately after the determination of the award offered by the College.

Financial Aid Awards

Financial aid is ordinarily awarded as a combination of two or more sources: grants, scholarships, workships, and loans.

Grants — These consist of grants awarded by the College from its resources, or Supplementary Education Opportunity Grants, Basic Educational Opportunity Grants derived from federal funds, and special grants for residents of North Carolina. North Carolina grants are based on need and are assigned by the financial aid officer. North Carolina Students Incentive Grants require an application which can be obtained from high school guidance counselors, College Foundation, Inc., Raleigh, North Carolina, or from the Financial Aid Office. The student's family must apply for Basic Educational Opportunity Grants; applications are available in the Office of Financial Aid.

Scholarships — These are assigned to academically talented students with demonstrated financial need. Among these provided by gifts

on an annual basis are the Robert C. and Sadie G. Anderson Scholarships, the Mary Lynn Richardson Scholarships, the Algernon Sydney Sullivan Scholarships, and the Lettie Pate Whitehead Scholarships.

Workship — This is the St. Andrews name for a part-time campus job with an average work load of 10 hours weekly. A student with a workship is expected to earn \$600 to \$700 annually, which is applied to his or her account. If applicable, social security and taxes are withheld from this amount.

National Direct Student Loan — Students who qualify may borrow up to \$2,500 for the freshman and sophomore years and \$2,500 for the junior and senior years (four year maximum of \$5,000). Repayment and an interest charge of three percent begin the ninth month following the student's departure from college. Repayments are made over a period of ten years. Cancellation of principal and interest is possible for teaching in certain designated areas.

Federally Guaranteed Loan — A qualifying full-time student may borrow up to \$2,500 for an academic year. Subsidized loans (the federal government pays the interest while the student is in school) are available to students whose family adjusted gross incomes are below \$25,000. For incomes above \$25,000, the loans are still available, but an interest rate of seven percent is charged during the period the student is in school. Upon leaving the institution, repayment is similar to the repayment plan for the National Direct Student Loan except there are no cancellation provisions. Interested students should contact the Financial Aid Office for applications.

Renewal of Financial Aid

A student must reapply for financial aid each academic year by having the Financial Aid Form (FAF) sent to the College Scholarship Service, or the Family Financial Statement filed with the ACT Student Need Analysis System. Aid usually continues at the same level each year, unless the student's resources or the parents' expected contribution changes. All enrolled students receiving aid automatically receive information on how to apply for renewal awards; other students should request information before March 1.

While the Director of Financial Aid is happy to assist, each student must exercise initiative to keep the College informed of needs and changes in financial resources. For renewal of financial aid or changes in aid plans students should observe the following additional requirements:

- (1) All students receiving assistance from the College through grants-in-aid, loans, or work opportunities are to maintain at least a cumulative "C" average. (Any exception must be specifically provided for in writing from the Director of Financial Aid.)

All students must exhibit evidence of good citizenship for continuation of a financial aid plan with the College.)

- (2) All students receiving assistance based upon need must report changes in financial resources, academic or citizenship problems which affect their status at the College, changes in marital status, and changes in campus or home address.

It is strongly recommended that resident students in need of financial aid avoid the additional financial burden of maintaining a motorized vehicle on campus.



Student Life

St. Andrews student life seeks the full development of its students. The academic program, social and recreational activities, civic involvement, and religious opportunities all contribute to the realization of this goal.

The academic program, climaxed with the awarding of the baccalaureate degree, brings about intellectual competence, familiarity with the learning process, and skills and knowledge in special fields.

St. Andrews seeks to help students identify and express their needs for individual understanding and growth and their relation to the world and life. Classes are small enough to permit give-and-take discussion and exchange of ideas. Informal discussion continues in the halls, in offices, in lounges and rooms. Seminars and tutorials afford students the chance to suggest and pursue, under informed direction, topics or interests they want to study in depth, and to react to questions of fellow students and professors.

In line with openness in academic inquiry, St. Andrews encourages a concept of student living that is equally forthright and honest, allowing opportunities to experience many different approaches to life's problems, both in the classroom and in the residence hall, on and off campus, in thoughtful isolation or in social relationships.

The College encourages active student participation in decisions that affect student life. Students serve on faculty committees which establish academic policies and social regulations. Students interview prospective faculty members and administrators and officers of the Student Association attend faculty meetings. Selected students assist in long range planning for the College. Students participate in formal and informal evaluation of courses and academic programs.

Social and recreational activities are most often conducted in the context of group living, offering the student many opportunities to develop poise and confidence in social activities. Individual responsibility is the keynote of student citizenship. Student government helps plan and regulate the campus life through the Senate, the Cabinet, and the Student Judiciary.

Almost all activities on campus are as open to new students as to upperclassmen: a freshman student may play a lead role in a major dramatic production; freshmen and transfer students frequently win office in spring elections. Students serve on major College committees as voting members. Active participation is encouraged in musical and dramatic groups, athletics, student publications, residence hall activities, etc.

Variety of Student Activities

Some thirty states and several foreign countries are represented in the St. Andrews student body, with most students coming from Atlantic Seaboard states. Wide geographic distribution implies broad cultural and racial backgrounds, and students' interests and experiences vary greatly. In an effort to offer something of value to all students, and in line with the many possibilities for growth in all the dimensions of campus living, St. Andrews offers broad and diverse activities.

Concerts, recitals, and art exhibits by students, faculty and visiting artists are a regular part of campus cultural life. The theatre program finds its talent as well as its spectators from among the total college community. St. Andrews provides a variety of films, fairs and festivals as well as lectures and workshops.

Campus literary activities are centered around the major campus publications: the newspaper, *The Lance*; the yearbook, the *Lamp and Shield*; and the student literary magazine, the *Cairn*. Students also contribute regularly to the *St. Andrews Review*. An active program of poetry readings by students, faculty, and guests enriches literary life.

Student social and recreational activities are coordinated by the College Union Board. The varied activities include dances, concerts, movies, and off-campus trips. The College Union Board also cooperates with other student groups in the operation of an on-campus coffeehouse, "Farrago."

The 820-acre campus affords an abundance of outdoor leisure activities. The riding club has facilities for the care and riding of student-owned and club-owned horses, and there is a sailing club with its own sailboat, and a gun club for those who wish to hunt in the area.

St. Andrews seeks a healthy balance between its varsity sports program and its program of intramural sports and recreation. Currently the College fields varsity teams in soccer, cross country, basketball, bowling, baseball, golf, tennis, and track. In endorsing the value of intercollegiate competition, St. Andrews is committed to a policy of non-subsidized athletes and competes primarily in the Dixie Intercollegiate Athletic Conference whose members share this policy. The athletic program is approved by, and the college is a member of, the National Collegiate Athletic Association.

The St. Andrews Radio Club operates an on-campus radio station, WSAP, which is a member of the Intercollegiate Broadcasting System. Opportunities for training and work in all phases of the broadcasting media are provided, including public relations, advertising sales, and programming. WSAP has excellent facilities and broadcasts 24 hours daily to the campus on a closed circuit.

While St. Andrews is a church related college, it is not sectarian in outlook. Religious activities are ecumenical in emphasis. The College Christian Council provides students and faculty with opportunities to

celebrate their faith in worship and to express it in service both on and off the campus. Students are encouraged to participate in the activities of the Laurinburg churches.

Honor at St. Andrews

The St. Andrews Honor Code was instituted by students in cooperation with the faculty and attests to a belief in the individual's responsibility for his or her own behavior. Lying, cheating, and stealing are serious violations of community integrity and thus are the concern of all members of the community.

All members of the community bear responsibility for maintaining high standards of conduct, and all are pledged to deal with violations of honor in a responsible way. Each student upon matriculation at St. Andrews affirms the following pledge:

As a member of the honor community of St. Andrews, I pledge that I will not lie, cheat, or steal, nor will I tolerate this conduct in any other member of the community. I will do all within my power to uphold the high standard of integrity and honor of St. Andrews.

Members of the administration and faculty of St. Andrews pledge themselves to respect the spirit and intention of this Honor Code, and to support the Honor System.

The Student Association

The Student Association is made up of all students of the College. The Cabinet is the executive body consisting of elected leaders of all major boards and activities, together with the chief elected officers of the student body. The Attorney General is the chief judicial officer of the Association, and various courts are elected or appointed to carry out the judicial responsibilities of student government.

The Senate, composed of representatives from each of the eight residence halls plus a day student representative, serves as the legislative body of the Association. Faculty or administration advisers serve with the students and all questions involving student welfare or interests are carefully considered for the general good.

Student Life Services

Student Life services are directed by the Student Life staff under direction of the Dean of Students. This staff includes the Director of Financial Aid and Placement, the Director of Residential Life, the Director of Student Activities, the Director of Rehabilitation Services, the Director of Health Services, and the College Pastor. This staff and these services are described in the student handbook, *The Saltire*.

The Student Life Committee, a joint faculty-student committee, establishes policies and regulations for student life in non-academic areas.

Residence Hall Life

Since St. Andrews is a residential college, all students are required to live on campus, when available space permits unless they are living with parents, guardians, or spouses. Single undergraduate men and women fully admitted but for whom no space on campus can be assured may reside off campus subject to approval by the Office of Student Personnel Services. Basic college regulations apply to off-campus residents.

The Dorm Council and the Residence Director operate each residence hall, and plan social activities. Each residence hall is responsible for setting its own living controls in regard to hours, visiting privileges, and social and recreational programs within the framework of general college policy. Optional freshman suites are available.

The College Union Dining Hall provides meal service throughout the regular college year except during stated vacation and holiday periods. The Red Lion snack bar is open at stipulated hours. Day students may eat here or buy a long-term meal ticket from the college food service for use in the Dining Hall.

Counseling and Guidance

Prior to registration, each beginning student selects a faculty student advisor team which works with groups of students throughout the freshman year. Assistance is provided the student in planning his academic program and in solving non-academic problems.

The Career and personal Counseling Center is one of three counseling centers in North Carolina approved by the International Association of Counseling Services. Operating under a special agreement with St. Andrews, the Counseling Center offers structured programs of counseling, testing, and occupational-education research for any St. Andrews student. Also available for consultation with students are the deans, faculty members, residence hall directors, and other administrators. Arrangements are made by the College to have psychiatric consultation available for those who may benefit from this level of professional help.

St. Andrews provides routine medical and first aid services to students at no extra charge through the College Health Center. Nursing services are available 24 hours daily on weekdays and on a call basis weekends. The College Physician is available for consultation on weekdays.

Overnight care is provided when necessary for students living in the dormitories; however, cases needing special care or more than casual bedside attention are referred to a local hospital. Such care, special medications, and the services of medical doctors off campus are financial responsibilities of students and their parents.

The College Physician and other medical doctors may be seen for private consultation off campus or at the specific request of a student or

parent. Such services are not provided as part of the health center program.

The College Health Center is part of the Rehabilitation Center, which also serves as a dormitory for a few severely handicapped students. St. Andrews is fully accessible to the physically handicapped; there are about 30 students in wheelchairs each year. A wide range of services is available to them including counseling, aides, rehabilitation nursing, urology, adaptive physical education, driver training, wheelchair repairs, and transportation by special bus.

Placement Services

Student Life Services provide career counseling, and job placement assistance. This office also maintains data concerning graduate and professional schools, provides opportunities for students to interview representatives of government, business, and industry, and establishes placement files for graduates. It also serves as a clearinghouse for parttime employment opportunities.

Policy Regarding Drugs and Alcoholic Beverages

The College cannot condone the abuse or illegal use of drugs and alcohol. Specific information regarding this matter is found in the student handbook.

Use of Motor Vehicles

Students who wish to operate a motor vehicle on campus must secure a permit from the Office of Student Life Services. The permit requires parental approval, and evidence of personal and property liability protection, and such other data as may be requested for supporting the application. The fee for a motor vehicle permit is one dollar per year.

Parental Relations

Parents' attitudes can affect student adjustment to the new experience of going to college. Parents should permit students to be on their own by giving support and by refraining from direct interference in academic or social situations.

Special Note

Students are expected to conduct their lives responsibly with due regard to the rights of other members of the St. Andrews community. When any student does not show convincing evidence of being in sympathy with the purposes, policies, and procedures of St. Andrews, the College reserves the right to ask the student to withdraw for the welfare of the College community.

Academic Information

Additional academic information may be found in the student handbook, The Saltire.

Degree Requirements

St. Andrews offers three degrees: Bachelor of Arts, Bachelor of Science and Bachelor of Music. Candidates for each degree are required to complete at least 37 courses, including one winter term course for each year enrolled and four terms of physical education (counting as the 37th course), with a grade-point average of 2.0 in all work attempted at St. Andrews and a grade-point average of 2.0 in all work attempted in the major field.

Faculty advisers help students plan their courses of study. Students are responsible to see that the courses taken meet the requirements for graduation. Special attention is called to the fact that, excluding core courses, a total of twelve courses at the 300-400 level is required for graduation. This number (12) includes courses in the student's major area as well as electives, but does not include winter-term courses.

Bachelor of Arts

St. Andrews Studies	6 courses
Selected Topics in Modern Science	2 courses
Physical Education	1 course (2-4 terms)*
Requirements for a Major	10-15 courses**
Electives	18-13 courses
	37 courses

Majors Offered: Accounting and Business, Allied Health, Anthropology-Sociology, Biology, Business Administration, Business-Chemistry, Chemical Physics, Chemistry, Economics, Education, English, Environmental Studies, Fine Arts (Art or Theatre), French, History, Intercultural Studies, Literature, Mathematics, Mathematics with an emphasis in Computer Science, Modern Language, Music, Politics, Philosophy, Physical Education, Psychology, Religion, and Religion and Philosophy.

*The student may complete the physical education requirement by demonstrated competency after two terms. The requirement includes swimming proficiency.

**Foreign language and mathematics requirements are determined by the major program.

Pre-professional programs are also available in pre-law, pre-medicine, pre-dentistry, pre-veterinary, pre-paramedical, and pre-ministerial areas.

Bachelor of Music

St. Andrew Studies	4 courses
Selected Topics in Modern Science	0-2 courses*
Physical Education	1 course (2-4 terms)**
Studies in the Structure and Styles of Music	7 courses
Requirements for a Major	6-12 courses
Music Lessons and Ensembles	8 courses
Electives	11-5 courses
	<hr/>
	37 courses

Majors Offered: Church Music with Organ Emphasis, Church Music with Voice Emphasis, Music Education, Organ, Piano and Voice. (The Bachelor of Music degree will be discontinued after 1977-1978; the Bachelor of Arts degree in Music will be continued.)

Bachelor of Science

St. Andrews Studies	6 courses
Selected Topics in Modern Science	2 courses
Physical Education	1 course (2-4 terms)**
Requirements for a Major	15 courses
Electives	13 courses
	<hr/>
	37 courses

Majors Offered: Biology and Chemistry. Medical Technology Certification and the Bachelor of Science degree are normally conferred after three years of study at St. Andrews and one year of training at an accredited college of medical technology. A more complete description of this program may be found under the Division of the Mathematical, Natural and Health Sciences.

Declaration of a Major or Area of Emphasis

A student may declare a major or area of emphasis any time after the first term at St. Andrews, but must declare a major before completing the registration process for the junior year. Transfer students accepted with junior or senior status must declare a major upon acceptance as a student at St. Andrews. Declaration of Major forms can be secured from the Office of the Registrar.

*This requirement applies only to the student with a music education major.

**The student may complete the physical education requirement by demonstrated competency after two terms. The requirement includes swimming proficiency.

Registration

Toward the close of each term, students plan and register for their course programs for the following term in conference with their advisers. New students confer with their advisers during the orientation period and complete registration on a designated date at the beginning of each term.

Students who register in the advanced registration period will be considered registered for billing purposes unless a formal cancellation of registration is filed with the Registrar. Cancellations are permitted through registration day. On or after the first day of classes, an enrolled student leaving the College must follow the prescribed withdrawal procedure.

System of Grading*

Each student receives a grade in each course at the close of the term. The grading system is as follows:

Grade	Grade Points**	Interpretation
A	4.0	A grade in the A range indicates an excellent performance in which there has been distinguished achievement in all phases of the course.
A-	3.7	
B+	3.3	A grade in the B range indicates an above average performance in which there has been a high level of achievement in some phases of the course.
B	3.0	
B-	2.7	
C+	2.3	A grade in the C range indicates an average performance in which a basic understanding of the subject has been demonstrated.
C	2.0	
C-	1.7	
D	1.0	A grade of D indicates a passing performance in which despite recognizable deficiencies there is enough merit to warrant credit.
F	0	A grade of F indicates failure and will be recorded but will not be counted as a course attempted when computing grade point averages.
W	0	A grade of W indicates withdrawal from class and will be recorded but

*System of grading beginning with the 1977-78 academic year.

**Grade points are the numerical equivalent of the letter grade. The student's grade-point average is computed by dividing the number of grade points earned by the number of courses completed with a grade of "D" or above.

Grade	Grade Points**	Interpretation
		will not be counted as a course attempted when computing grade point averages.
I	0	A temporary grade of I indicates an incomplete for a course
P	0	A grade of P indicates satisfactory performance in a course and will be recorded but will not be counted as a course attempted when computing grade point averages.

**Grade points are the numerical equivalent of the letter grade. The student's grade-point average is computed by dividing the number of grade points earned by the number of courses completed with a grade of "D" or above.

Pass-Fail Option Grading

Students with junior or senior standing may select a total of two elective courses to be graded on a pass-fail basis. Students who wish to designate a course to be graded on the Pass-Fail Option must do so in the Office of the Registrar no earlier than four weeks before the end of classes and no later than two weeks before the end of classes.

Incompletes, Failures and Withdrawals

An incomplete, "I", is given only when circumstances do not justify giving a specific grade. It must be removed within the first four weeks of the term following the one in which the incomplete was received. If not, the incomplete becomes a failure, "F".

A failure, "F", cannot be removed from a student's record. If the course is required for graduation or for a major, it should be repeated the next time it is offered. A course for which credit has been received cannot be repeated without the permission of the Dean of the College.

When a student withdraws from a course for any reason before the last two weeks of classes with the instructor's and faculty adviser's approval, a grade of "W" will be recorded.

Reports of Grades

Parents as well as students receive academic reports after official grading periods and are also informed of any disciplinary action. Students, however, are expected to inform their parents in such cases and not leave the responsibility entirely to officials of the College.

Any student who is not a dependent (for tax purposes) of parents and does not want copies of grade reports sent to parents should notify the Registrar's Office. An affidavit certifying that the student is not a dependent of parents may be required.

Classification of Students

A student's classification depends upon the amount of college credit received. Credit for college work is recorded in courses satisfactorily completed. A student is classified as:

- (1) A senior, upon passing 26 courses.
- (2) A junior, upon passing 17 courses.
- (3) A sophomore, upon passing 8 courses.
- (4) A freshman if the regular admission requirements have been met.
- (5) A special student, if admitted as a non-degree candidate. Regularly matriculated students may not choose this classification to avoid required courses.

Academic Probation and Eligibility to Continue in College

The quality of academic work done by individuals in this community determines not only the benefits to that individual but the benefits of his or her presence to the community. When the quality of that work puts these benefits in question, the college and the student both need to consider the advisability of the student's continuance here.

To maintain satisfactory progress toward a degree, a full-time student must maintain a cumulative grade point average of 2.0 and pass at least three courses during a regular term. A student failing to maintain this progress will be placed on academic probation.

A student on academic probation who fails to show marked improvement in academic work during the following term may be asked to withdraw from the College. A student still on academic probation after two successive regular terms on academic probation is normally ineligible to return. In any case, continuance on this status or dismissal from the College is determined in consultation with the Dean of the College and the Faculty Executive Sub-Committee on Student Problems.

Residence Requirements

A student must spend the senior year at St. Andrews and obtain credit in residence for at least the last nine courses to receive a degree from the College.

Withdrawal from the College

Application for complete withdrawal from the College should be secured by the student from the Office of the Dean of Students. While the several signatures which need to be obtained on the application form seem onerous to the student wishing to leave the College, they are necessary to assure that the record is cleared before the student leaves.

Students withdrawing during the first week of classes receive no grades. After the first week of classes, grades of "W" are given under the

same procedure used for dropping one course. Students who leave the College without completing the withdrawal procedure will receive failing grades in all courses and will not be entitled to refunds.

Withdrawing students are entitled to refunds as follows, to be mailed within ten days of completed withdrawal:

a. Tuition:	Amount of Refund
During first week	75%
During second week	50%
During third week	25%
After third week	none

Tuition refund insurance is available on an optional basis to those who wish to insure against contingencies which require withdrawals after the third week. It is described on page 18.

- b. Board refund is allowed regardless of when withdrawal occurs. It is prorated on the basis of the number of meals served through the day withdrawal is completed.
- c. No refund is allowed for room charges, regardless as to when withdrawal occurs. The College reserves the right to reassign the room of a student who withdraws or goes on leave during any academic term.

Transfer Credits

Transfer credits from other institutions approved by the appropriate regional accrediting agency will be granted in full provided the courses taken correspond to work offered at St. Andrews. Courses passed with grades of less than "C" are accepted in transfer only if the student's overall record at the previous institution averages "C" or above.

Summer Term

The College conducts a summer term including a wide range of courses for undergraduates, teachers, and selected high school students. Members of the St. Andrews faculty and visiting professors make up the faculty of the summer term. Contact the Director of the Summer Term for further information.

Summer Work at Other Institutions

Students desiring to receive credits toward graduation for summer courses at another institution must have the approval of their faculty adviser and the chairman of the division in which the corresponding course is taught. The institution in which work is taken must be fully accredited. Credit will be granted only for courses of college level which are also allowed toward graduation by the institution conducting the summer school. For credit the course must be completed at the "C"

level or higher. The student is responsible for requesting the institution to mail an official transcript of summer work to the Registrar at St. Andrews as soon as courses are completed.

Correspondence Study

Full-time students may be enrolled in extension courses, correspondence courses, and courses for credit from other colleges or universities only if they get approval in advance from the Dean of the College. Credit toward the St. Andrews degree will not be allowed, however, unless the grade earned in the course is "C" or better.

Two approved academic courses taken by correspondence may be accepted by St. Andrews toward meeting graduation requirements.

Studies Abroad

St. Andrews sponsors and cooperates with other institutions in making available to students courses and programs abroad in international studies. These are primarily conducted in the winter and the summer terms. Independently or in cooperation with other institutions, individual students may work out a junior year abroad.

Honors

The College seeks to encourage and formally recognize superior academic achievement. To that end, the College awards several academic honors:

ST. ANDREWS DISTINGUISHED SCHOLARS AWARDS — The College annually makes these awards to approximately 10 members of the incoming freshman class. These four-year scholarships, the highest academic awards of the College, are based on academic record, character, and leadership potential. Ten other finalists in the competition receive *PRESIDENTIAL SCHOLARSHIPS*, also four-year awards.

DEAN'S LIST — The Dean's list recognizes freshmen and sophomores who have a 3.25 grade-point average, and juniors and seniors who have a 3.50 grade-point average.

SOPHOMORE HONORS — Each spring the College awards Sophomore Honors to students who have earned a grade-point average of 3.25 or better through the winter term of the sophomore year. The College selects from this group those students with the highest academic records as *SOPHOMORE SCHOLARS*, a distinction that also carries a scholarship award.

ST. ANDREWS HONOR SOCIETY — Membership in the Honor Society is awarded to juniors and seniors who have earned an overall average of 3.25 or better on 14 courses at St. Andrews. Members serve as marshals at convocations and special events and members who are juniors serve as marshals at Commencement.

HONOR GRADUATES — St. Andrews bestows special recognition upon those students whose academic work has been of superior quality. Degrees are awarded with honors to those with a grade-point average of 3.50 and with high honors to students with a grade-point average of 3.75 or better. Transfer students will be evaluated for honors on an individual basis by the Faculty.

Curriculum

The St. Andrews curriculum assumes that education is more than an identifiable body of knowledge and rigid disciplines of study. Its core is St. Andrews Studies which begins with Freshmen Tutorials and ends in the Senior year with Interdisciplinary Seminars. Sciences in the required Freshmen courses are also treated as interrelated studies for understanding the physical and natural environment of human life. The curriculum will not permit a complete and precise listing of courses and programs, since students are encouraged to design their own programs to meet individual needs and goals.

In addition to courses, St. Andrews offers internships in government and social agencies as an integral part of the credit offerings of certain majors. Planning is now in process to expand this program to provide more students with opportunities which enrich their learning experience through a confrontation with practical applications of knowledge. Students interested in internships should confer with the Associate Dean for Academic Affairs and their faculty advisors.

Interdisciplinary majors, represented in this catalog by the Environmental Studies Major, the Intercultural Studies Major, and the Allied Health Major are being incorporated into the curriculum.



St. Andrews Studies

Director: Cornelius Bushoven III

St. Andrews Studies is a three-year, general education program in the fine arts, the humanities, and the social and behavioral sciences required of freshmen, sophomores, and seniors. The program moves from the development of skills of critical inquiry and a progressive consideration of disciplinary methods converging in an interdisciplinary understanding of the contemporary world. All three levels engage the student in serious consideration of moral values. Each course offers a variety of options in format and content. These options will vary from year to year. Common learning experiences in small and large groups — festivals, concerts, films, lectures, workshops, etc. — complement the courses.

101, 102 Freshman Tutorials 4 hpw

Develops intellectual, imaginative, and social skills in the context of learning groups of 15-18 students. Led by faculty and advanced student advising teams. Students in the fall term deal with self-understanding and the nature of liberal learning, and each student develops a learning plan for the college years. Spring term tutorials emphasize development of formal skills in expository writing and one other communications skill.

201, 202 Sophomore Disciplinary Studies 4 hpw

Introduces the methodologies of the arts, the humanities, and the social and behavioral sciences and fosters an appreciation of the distinctiveness, value, and limitations of the disciplines. The focus for each semester is either an historical epoch or a geographic area of the world. Students approach the study of the epoch or geographical area together in weekly plenary sessions and in separate sections employing the methodology of an academic discipline.

The junior year is designated as the time for intensive work in the major, and therefore, does not contain a St. Andrews Studies component.

401, 402 Senior Interdisciplinary Seminars 4 hpw

Explores issues and topics requiring resources and information from several academic areas reflecting the students majors. The emphasis is on the development of skills of interdisciplinary communication as well as refining the skills acquired in the first two years of the program. Seminars in the fall term deal with social issues in contemporary international society; seminars in the spring term focus on the transition from college into career and family life.

Selected Topics in Modern Science

Chairman: A. Leon Applegate

These two courses in natural science, which must be taken in the freshman year, constitute the science requirement for all students.

101, 102 Selected Topics in Modern Science

7 hpw

The underlying theme of the core science program is a study of the physical nature of humans. This interdisciplinary study of human beings probes the most recent discoveries concerning the genetics, the nutrition, the development, and the neurological functions of man. Laboratory sessions include inquiry-oriented projects and the computer-assisted analysis of quantitative data.



Winter Term

Coordinator: James F. Stephens

The four-week winter term in January provides a time for experimentation, innovation, and variety in learning experiences and presents subject matter and areas of study not offered in the same form in the fall and spring terms. The winter term offers opportunities to explore new interests, to combine theory and experience, and to pursue work that lends itself to intensive application.

Winter term courses are required for graduation and are as important as regular term courses. A winter term course occupies a student's full academic time for the month. This means that students are expected to spend as much time on the one course during this short term as they are expected to spend on four courses during a given month in the fall or spring terms.

More than 40 courses are approved for the winter term each year and provide opportunities to study aspects of a discipline on campus, elsewhere in this country, or in Europe, Asia, Africa, or Latin America.

Students in the past several years have studied the theatre in London, archaeology in Mexico, marine biology in Puerto Rico, folk music in Scotland, and the secular city in New York. Others had internships in social work and special education through local and regional agencies.

Students have also studied the stock market and investments, African fiction, human genetics, the future, psychopharmacology, religious themes in Chinese art, statistical inference, transformational grammar, and contemporary British fiction. Students may also propose independent study projects for this term.

A student must take one winter term course for each full academic year in attendance at St. Andrews. A major program may require one winter term course. A student may choose no more than two winter term courses within the major.

St. Andrews welcomes to its winter term students in good standing at other accredited colleges and universities. Although it has no formal exchange agreements with other institutions, St. Andrews is willing to waive tuition for students from institutions which agree to do the same for St. Andrews students. Students interested in attending should obtain application and registration forms from the Coordinator of the Winter Term.

Interdisciplinary Majors

Allied Health Major

The Allied Health major is a multidisciplinary program designed to prepare the student for clinical training experience in one of the allied health professions such as hospital administration, nursing, occupational therapy, physical therapy, or physician's assistant. After four years at St. Andrews obtaining a broadly based educational background, the student enters either a graduate school program or a certificate program.

The Allied Health major consists of fourteen (14) courses, of which seven (7) are junior-senior level courses. All majors are required to take a core of four courses consisting of Biology 201 (Organismal Biology), Bio 207 (Human Anatomy and Physiology), Mathematics 205 (Statistics), and Psychology 201 (General Psychology). The remaining ten courses are selected from course offerings listed in the catalog. The entrance requirements of the graduate or certificate program determine which courses are selected. These courses are approved by the academic advisor and the allied health committee.

The winter term enables St. Andrews to provide a unique opportunity to the Allied Health major — a preclinical internship in the chosen area. This internship, lasting one month on a full-time basis, offers the major the opportunity to examine the profession and to observe how course work relates to the profession.

Environmental Studies Major

Coordinator: Thomas H. Jones

The Environmental Studies major is a multidisciplinary program including studies from the social and behavioral sciences, the humanities, and the natural sciences. The study and resolution of complex environmental issues requires both the skills and holistic outlook of a generalist and the skills and deepened knowledge of a specialist. To help them achieve this generalist-specialist balance, environmental studies majors are required to take a concentration of at least seven courses in environmental studies (including two terms of research) and a second concentration of at least six courses in any traditional academic major offered by the college. Students are also encouraged (but not required) to gain practical experience in environmental affairs by participating in an off-campus internship in business, government, or other organizations.

The Environmental Studies major is built around a "contract" in

which each student develops a specific plan of courses to meet stated needs and goals. Each contract is drawn up by the student in consultation with the Coordinator of Environmental Studies and participating faculty. Once the contract is approved by the environmental studies faculty, it is filed in the Registrar's office. If interests or needs change, students may amend the original contract upon approval of the Coordinator in consultation with participating faculty.

Requirements for a Major in Environmental Studies

- (1) **Environmental Studies Concentration:** A minimum of seven courses, with at least four at the 300-400 level, is required. The following four courses in Environmental Studies are required as a basic core for all students: Environmental Studies 202 (Introduction to Environmental Studies), 302 (Research Project), 401 (Research Project), and 402 (Senior Seminar). The remaining three courses may be chosen from the list of environmental studies and related courses described below.
- (2) **Traditional Major Concentration:** A concentration of at least six courses in any traditional academic major offered by the college, with at least half of the courses at the 300-400 level, is required. Each student's contract proposal for courses in the major concentration must be approved by the Coordinator of Environmental Studies and the participating faculty.

Courses in Environmental Studies

202	Introduction to Environmental Studies	3 hpw
	A survey of ecological concepts; population; food problems; land use; mineral, water, and energy resources; pollution, and environmental economics; politics; and ethics. (This course, or Anthropology 205, will satisfy the requirements for the N.C. Department of Public Instruction for Geo-Earth Study for elementary education.)	
302	Research Project	4 hpw
	First half of a two term research project. Students must submit a research proposal for approval by the environmental studies faculty. At the end of the term each student must submit a paper describing his or her results and defend this paper in a seminar before the environmental studies faculty. Students are expected to begin their research in the second term of their junior year and to submit a brief summary of their proposed research project to the Coordinator of Environmental Studies by December 1 of the fall term of their junior year.	
361	Internship	
	An on-the-job practical experience related to environmental affairs in business, government, or other organizations. A written proposal for each internship must be submitted to the Coordinator of Environmental Studies for approval one month before the term in which the internship is to be carried out. Students are expected to carry out their internship during the summer or	

winter term of their junior or senior year on a full-time basis for at least four weeks. In rare cases part-time internships during the fall or winter term may be approved.

401	Research Project	4 mpw
Second half of the required two term research project. Normally each student continues the project started during the spring term of his or her junior year. Final results are presented in the format used for publication in a professional journal and each student must defend his or her paper in a seminar before the environmental studies faculty.		
402	Senior Seminar in Environmental Studies	4 mpw
Normally each student will develop a paper that projects and establishes the feasibility of alternative models for some major environmental problem in the year 2000. Each student will defend the model that he or she chooses as best for the future. Students will work in groups to develop a group paper that provides a detailed plan of action designed to achieve their chosen model by the year 2000. Group papers will be defended before the environmental studies faculty.		

190, 290 Special Studies in Environmental Studies

390, 490

Each course, initiated by the professor and approved by the Environmental Studies Faculty and Educational Policy Committee of the faculty, provides the opportunity for small classes to do intensive study and research in some special areas of environmental studies. The level of work will be indicated by the course number used.

199, 299 Guided Independent Study in Environmental Studies

399, 499

This course, initiated by the student and approved by the environmental studies faculty, provides the student opportunity for independent study on a special project or topic. The project must be submitted to the participating faculty on the proper forms for approval at least one month before the end of the term prior to the term in which the project is to be carried out. The level of work will be indicated by the course number.

Related Courses for a Major in Environmental Studies (For detailed course descriptions see the catalog copy under each discipline. Some of these courses are offered only every other year.)

Anthropology 290	History of Conservation
Chemistry 290	Environmental Chemistry
Politics 280	Politics and Environment
Philosophy 212	Ethics
Religion 206	The Old Testament World
Religion 213	Christian Ethics and Contemporary Social Problems
Biology 307	Environmental Biology
Biology w 30 (Winter term course)	Marine Biology
Economics 307	Environmental Economics
Anthropology 407	Ecological Anthropology
Business Administration 404	General Systems Approach to Problem Solving

Intercultural Studies Major

The Intercultural Studies Major is an interdisciplinary major focusing on contemporary world cultures. It is designed to permit students to develop a major which combines studies from the social, behavioral sciences and the humanities around a theme which is cross-cultural and global in perspective. Each student will work out an individualized plan of study in consultation with the Coordinator and with the approval of the participating faculty. Possible themes for a major include War in the Modern World, Peace Studies, East European Studies, African Studies, Asian Studies, Future World Studies.

Requirements for a Major

The contract outlining an individual's major must have a unifying theme. A contract must have a minimum of twelve courses including Intercultural Studies 201; either Spanish 331, French 331, or German 331; and an advanced research project in the senior year. The remaining nine courses must be distributed among the disciplines of the humanities and social and behavioral sciences and include study in both European and non-European areas. The Coordinator will publish yearly a list of regularly offered courses which are sufficiently intercultural in focus for this requirement. Appropriate Winter Term courses, Special Studies, and Guided Independent Studies may be accepted by the participating faculty as meeting this requirement. In addition to the twelve intercultural courses organized around a theme, the student majoring in intercultural studies must demonstrate proficiency in a foreign language, and have a direct experience in another culture. This experience may be in a subculture within the United States. According to the individual circumstances, a student may so structure this experience as to receive academic credit. The participating faculty will review and approve in advance all proposals, and in no case should the credit or approval be viewed as automatic.

Courses in Intercultural Studies

201 Introduction to Intercultural Studies

An interdisciplinary introduction to the study of world cultures, with consideration of problems of perception, appreciation for, and understanding of the thought, ways of being, traditions and social organization of the peoples of cultures.

290, 390 Special Studies in Intercultural Studies 490

This course, initiated by a participating professor, provides opportunity for small classes to do intensive study and research in a special area of intercultural studies under faculty direction. The level of work will be indicated by the course number.

299, 399 Guided Independent Study in Intercultural Studies**499**

This course, initiated by the student, provides opportunity for independent study on a special project. The project must be submitted to the program on the appropriate forms for approval. The level of work will be indicated by the course number.

Thematic Contract Majors

Coordinator: James F. Stephens

In addition to the standard disciplinary and interdisciplinary majors listed in this catalog, students have the option of selecting a thematic major. A thematic major is an individualized contract major not specified in the catalog, listing a combination of courses from various major programs which are consistent with the theme of the major and with the student's goals and objectives. Examples of thematic majors include Journalism, Art History, Comparative Cultures, Children's Theatre, Urban Studies, Communications, African Studies, Southern Culture, American Studies, Horticulture, and Ecological Studies. Thematic majors include guided independent studies, winter term courses, and internships and other field experience learning projects.

Students interested in thematic majors should confer with the coordinator of thematic majors.

In consultation with the coordinator of thematic majors each student who enters a thematic major contract will select at least two faculty advisors, one of whom will be selected as the principal advisor. The advisors must be approved by the coordinator of contract majors. The coordinator and the faculty advisors will comprise the student's advising team.

Disciplinary Contract Majors

In order to allow as much flexibility as possible in each student's course of study, each of the college's major programs offers the option of a disciplinary contract major. For information concerning a contract major, see the description under the specific program heading in the curriculum section of this catalog. Additional information may also be obtained by contacting the chairman of a specific major program.

Programs and Courses

The following pages list the approved course offerings at St. Andrews for the 1977-1978 academic year under the three academic divisions of the College. The divisions and the programs of study under them are:

Division of the Humanities and the Fine Arts

- Art
- English
- Foreign Languages
- Music
- Philosophy
- Religion
- Theatre

Division of the Mathematical, Natural, and Health Sciences

- Biology
- Chemistry
- Physics
- Health and Physical Education
- Mathematics

Division of the Social and Behavioral Sciences

- Anthropology and Sociology
- Business and Economics
- Education
- History
- Politics
- Psychology

While every effort is made to schedule a well-balanced list of courses each year, some courses are offered only in alternate years.

Certain programs are described separately at the beginning of this section of the catalog. These are St. Andrews Studies, Selected Topics in Modern Science, the Winter Term, and Interdisciplinary Majors: Allied Health, Environmental Studies, and Intercultural Studies.

In general, courses numbered between 100 and 299 are designed for freshmen and sophomores, and those numbered between 300 and 499 for juniors and seniors. Odd numbers are used for courses ordinarily offered in the fall term and even numbers for those ordinarily offered in the spring term. A year-long course is indicated by joining the course numbers for the two terms with a hyphen, e.g. 101-102. The abbreviation "hpw" following a course title refers to the number of hours per week the course meets.

The requirements for majors are outlined immediately preceding the list of courses offered in a given program.

Most programs of study listed in this catalog provide for Special Studies and Guided Independent Study. The college-wide descriptions for each follow and will not be repeated in each program.

190, 290 Special Studies

390, 490

This course, initiated by the professor, provides opportunity for small classes to do intensive study or research in some special field under faculty direction. The level of work will be indicated by the course number used.

199, 299 Guided Independent Study

399, 499

This provides for a project initiated by the student. The project must be submitted to the program and division on the proper forms for approval. The level of work will be indicated by the course number used.

Students are urged to familiarize themselves with various divisional requirements for Guided Independent Study and to plan their independent study projects early in order to meet specific division deadlines for submission of their projects.



Division of the Humanities & the Fine Arts

Chairman: Carl D. Bennett

Programs
Art
English
Foreign Languages
Music
Philosophy
Religion
Theatre

Majors

English
Fine Arts (Art or Theatre)
French
Literature
Modern Languages
Music
Philosophy
Religion
Religion and Philosophy

Art

*Associate Professor Fulcher; Assistant Professor Woodson
(Chairman)*

Major in Fine Arts with an Emphasis in Art

Curriculum requirements for the student wishing a major emphasis in art will be contracted on an individual basis with an adviser from the art faculty. A student may select from several suggested contracts or incorporate variations into the contract on consultation with the adviser. Career goals and other educational pursuits may be considered in a total program of technical, creative, and aesthetic development. Artistic interests related to other fields like literature, theatre, business, or biology, may be worked into the contract also.

The only overall stipulation, to insure the integrity of the contract, is that twelve courses be named, individually or in groups (e.g., "so many" studio courses), in the contract. A minimum of six of these must be upper-level courses of which at least four (including 410, Senior Seminar in Art) should be from the Art Program. The contract is then placed in the student's permanent record file where it remains unless revised by mutual student/art faculty agreement.

Courses in Art

111 Introduction to the Visual Arts

A foundation course which coordinates the development of analytic and appreciative skills with an orientation to the expressive use of formal elements in studio practice. Concepts and themes presented in a historical survey of art will be explored in studio exercises on visual and psychological properties of form. Lecture discussion: two hours; studio: four hours. Offered fall term. Open to freshmen and non-majors.

112 Basic Design

An analysis of the formal and physical components of the visual arts: form and space, color, line, shape, texture, and movement. The aesthetic and structural properties of materials will be investigated. Six studio hours. Offered spring term. Open to freshmen and non-majors.

113 Elements of Three-Dimension Expression

An exploration of methods, tools and ideas used in the creation of sculpture. A variety of basic materials will be used. Six studio hours.

114 Drawing and Composition

A basic course in visualization and perception, stressing the descriptive, interpretive, and analytic functions of line, light and shade, and perspective. Six studio hours.

211 Painting I

An introduction to the problems and principles of composition and color organization, and to the technical procedures of painting. Prerequisites: Art 111 and Art 112 or 114, or consent of the instructor. Six studio hours.

213 Intermediate Sculpture

A studio course in applying basic sculptural knowledge to a variety of materials. Modeling, casting, and carving will be emphasized. Prerequisite: Art 113 or consent of the instructor. Six studio hours.

214 Figure Drawing

A study of the human figure in terms of its muscle, bone, and proportional configuration. An analysis of the parts as well as the total unity of the figure will be stressed. Offered spring term. Prerequisite: Art 114 or consent of the instructor. Six laboratory hours per week.

- 216 Graphics I**
An introduction to printmaking emphasizing relief and intaglio methods (woodcut, collagraph, drypoint, etching, engraving) in both color and black and white.
- 260 Studies in Art History.**
An introduction to representative works from the major cultural epochs of the Western tradition. Emphasis will be placed on the interpretation of selected works of artists — painting, sculpture, architecture — within the context of their societies and cultural traditions.
- 311 Painting II**
A continuation of Art 211 centering on the development of individual and original approaches to the expressive possibilities of the medium. Spring term. Prerequisite: Art 211. Six studio hours per week.
- 313 Advanced Sculpture**
A continuation of Art 213 in which techniques such as welding, plastics and resins, kinetic sculpture, and environmental construction are emphasized. Prerequisites: Art 113 and 213 or consent of the instructor. Six studio hours per week.
- 314 Advanced Drawing**
Emphasis on original solutions to drawing problems in various media. Pre-requisite: Art 214 or consent of instructor. Six studio hours per week.
- 315 Advanced Design**
An exploration of advanced techniques of design theory and application. Emphasis will be given to problems requiring practical and aesthetic solutions. Prerequisite: Art 112. Six laboratory hours. Not considered a studio course.
- 316 Graphics II**
This course will emphasize the flat-surface methods of creating printed images. Serigraphy, or silk-screen, as well as means of offset production will be explored.
- 321 Art in the Elementary School**
A course designed to meet the needs of elementary teachers. A study of studio methods applicable to the elementary grades, and a survey of recent thinking with regard to art programs at that level. Combined lecture and laboratory.
- 360 Seminar in Modern Art**
An investigation of the art of the last two hundred years as a means of understanding contemporary movements. The study of criticism and theory will be integral to the chronological analysis of art works. Some background in art history is recommended.
- 380, 480 Advanced Studies in Art**
This course will be a coordinated seminar of independent projects dealing

with advanced problems in various media areas. Specific objectives and responsibilities will be student formulated at the beginning of the course and pursued within the framework of the elected medium. Prerequisites: both levels of the medium chosen plus instructor's approval.

- Sections:
- A. Painting
 - B. Graphics
 - C. Drawing
 - D. Sculpture
 - E. Design
 - F. Art History

410 Senior Seminar in Art

An independent project or projects based on skills and insights gained in previous studio work. The medium or media are student selected. Offered once a year for art majors in their senior year. Six studio hours.

190, 290 Special Studies in Art

390, 490

199, 299 Guided Independent Study in Art

399, 499



English

Professors Bennett, White; Associate Professor Bayes (Chairman); Assistant Professor Osmanski

Major in English

The English major provides a concentration in humane learning as an end in itself. It also prepares students for entry into graduate studies in English or for admission to professional studies in law, social services, and theology. When the necessary sciences are also studied it prepares students for admission to schools of medicine and dentistry. Governmental and business agencies desire English majors for executive training. With selection of prescribed courses, an English major leads to teacher certification.

Courses of study within the English major are designed to meet the needs of the individual student. English majors will contract with the English faculty the courses to be taken in their degree program. Students will be invited to contract English majors of the following kinds, or to propose alternatives that more adequately meet their needs: the major in English and American literature (primarily for persons anticipating graduate study in literature); English for the public schools; English with an emphasis in journalism and other media; English with an emphasis in creative writing; English for careers in the Church; English for pre-law; English for business careers; English for pre-medical and health careers; English for civil service careers.

Contracts will be developed that are mutually agreeable to the English faculty and the student, and that include serious studies in English while drawing upon other resources of the College that point toward particular vocations. No fewer than 10 courses must be stipulated in the contract, of which at least 5 must be at the 300-400 level; no fewer than 6 English courses are to be included, of which at least 4 must be at the 300-400 level.

Courses in English

- | | | |
|------------|--|--------------|
| 210 | Classics of the Western Literary Tradition (See Literature 210) | |
| 211 | Masterpieces of English Literature (See Literature 211) | |
| 212 | Literature of the Non-Western World (See Literature 212) | |
| 215 | Creative Writing | 3 hpw |
- Training and practice in the writing of verse, prose, fiction, and drama. Prerequisite: Two literature courses on the 200 level or consent of the instructor.

301	Shakespeare	4 hpw
A study of the major histories, comedies, and tragedies of Shakespeare against the background of the English Renaissance. Particular emphasis will be placed on the variety of critical approaches possible in a study of Shakespeare. Prerequisite: Junior standing or consent of the instructor.		
302	Chaucer	4 hpw
A detailed examination of <i>The Canterbury Tales</i> in the context of medieval aesthetics and literary forms. Recordings will be used to introduce the student to the sounds and structure of Chaucer's language. Prerequisite: English 301 or consent of the instructor.		
303	Aspects of the English Language	4 hpw
An introduction to the nature of language, with emphasis on contemporary approaches to the structure of the English language. Prerequisite: Junior standing or consent of the instructor.		
308	Victorian Literature	4 hpw
A study of the major poets and essayists of Victorian England. Prerequisite: Junior standing or consent of the instructor.		
310	Modern British and American Poetry	4 hpw
Readings from a wide selection of modern British and American poets. Special attention will be given to Gerard Manley Hopkins, William Butler Yeats, Robert Frost, T.S. Eliot, Ezra Pound, and William Carlos Williams. Prerequisite: Junior standing or consent of the instructor.		
311	The American Renaissance	4 hpw
A study of the literature of the American Renaissance with particular emphasis on Emerson, Thoreau, Whitman, Hawthorne, Melville, and Mark Twain. Prerequisite: Junior standing or consent of the instructor.		
312	American Fiction of the 20th Century	4 hpw
A study of representative American fiction of the 20th century. Analysis of novels by such writers as Norris, Dreiser, Lewis, Hemingway, Faulkner, Dos Passos, Steinbeck, Wright, Warren, Bellow, Malamud, and Oates. Prerequisite: Junior standing or consent of the instructor.		
313	The Art of Teaching	4 hpw
A study of the art and methodology of teaching English language and literature, including brief teaching experience in a secondary school. Not offered for credit toward the English major. Required for Class A Teacher's Certificate in North Carolina.		
314	Poetry and Non-Shakespearean Drama of the English Renaissance	4 hpw
An examination of major poets and dramatists of the English Renaissance excluding Shakespeare. The course will focus on Spenser, Donne, and the Jacobean dramatists. Prerequisite: Junior standing or consent of the instructor.		

316	The English Novel	4 hpw
Representative works of the principal novelists in the English tradition. Analysis of novels by such writers as Fielding, Austen, Dickens, Hardy, Conrad, Woolf, Joyce, and Greene. Prerequisite: Junior standing or consent of the instructor.		
317	Literature of the Romantic Period	4 hpw
A study of the chief poets and critics of English Romanticism. Prerequisite: Junior standing or consent of the instructor.		
333	Journalism: Editing	4 hpw
A practical and theoretical study in editing newspapers and magazines, including examination of problems in editing for radio and television. Prerequisite: Typing ability and consent of the instructor. Seniors will have preference.		
401	Milton	4 hpw
Intensive reading of Milton's poetry with major emphasis on <i>Paradise Lost</i> and <i>Samson Agonistes</i> . Collateral readings from the prose. Prerequisite: English 302 or consent of the instructor.		
415	Advanced Creative Writing	4 hpw
Practice in writing in one or more genres directed at the professional level concluding with a book-length manuscript. Parallel readings in contemporary criticism. Prerequisites: English 215 and consent of the instructor. Seniors will have preference.		
190, 290	Special Studies in English	
390, 490		
199, 299	Guided Independent Study in English	
399, 499		

Foreign Languages

Associate Professors Geffert (*Chairman*), Neylans; Assistant Professor Loftus

The French, German, and Spanish 111, 112, 213 courses are the equivalent of the usual two-year elementary and intermediate offerings.

Contract Majors in Modern Languages

Contract majors involving various combinations of modern foreign languages, or combinations of modern foreign languages with various fields of study which a student wishes to relate to foreign languages (e.g., history, politics, the sciences, theatre, business, religion, etc.) are available. The program faculty and the student will work out a

contract, in accordance with the general college guidelines, which is acceptable to the language faculty and to the student.

The general requirements are that the contract include at least twelve courses:

- a) a minimum of six 300-400 level foreign language courses;
- b) at least one course in linguistics;
- c) a minimum of five other courses, at least one of which must be on the 300-400 level.

Major in French

The French major consists of eight French courses above the 100 level usually including 213, 322 or 331, 341, 342 and at least three other French courses on the 300 - 400 level; a course in linguistics; and at least two courses in a second foreign language. With proper courses in education this program will provide for teacher certification.

Courses in French

111, 112 French Language I, II	5 hpw
Communicating in French on a practical level. The grammar will be presented by means of comparisons and contrasts with the English language. This course assumes active participation by the student, both in and out of class.	
213 French Language III	4 hpw
Assumes a basic ability to use French. This course is individualized as much as possible to allow each student to acquire the particular vocabulary and skills necessary to his or her discipline or career objectives. Prerequisites: French 112 or advanced placement.	
322 Advanced Composition and Conversation	4 hpw
Designed for students who have acquired a working knowledge of the language, this course offers practice in advanced composition and conversation. Prerequisites: French 213 or permission of the French faculty.	
331 French Culture and Civilization	4 hpw
An introduction to French history, art and literature from the Middle Ages to the present, with emphasis on contemporary French and its influence in North America, Africa, and Asia. Prerequisites: French 213 or permission of the French faculty.	
341 French Literature: Middle Ages to the 17th Century	4 hpw
An introduction to French literature from the Middle Ages to the 17th century, presenting the major authors, schools, themes and techniques. Wide reading, oral and written reports. Prerequisites: French 213 or permission of the French faculty.	
342 French Literature: 18th Century to the Present	4 hpw
An introduction to French literature from the 18th century to the present,	

emphasizing the major authors, schools, themes and techniques. Wide reading, oral and written reports. Prerequisites: French 213 or permission of the French faculty.

421	Advanced French Literature (A, B, C, D, E, F)	4 hpw
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Presupposing a broad, general knowledge of the evolution of French literature from the Middle Ages to the present, this course considers particular authors, groups, themes or genres having a significant impact on French literature. The content of the course will vary, on a rotating basis, over a three-year period. Prerequisites: French 341, 342; or permission of the French faculty.

190, 290	Special Studies in French
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390, 490

199, 299	Guided Independent Study in French
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399, 499

Courses in German

111, 112	German Language I, II	5 hpw
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Communicating in German on a practical level. The grammar is presented by means of comparisons and contrasts with the English language. This course assumes active participation by the student, both in and out of class.

213	German Language III	4 hpw
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Assumes a basic ability to use German. This course is individualized as much as possible to allow each student to acquire the particular vocabulary and skills necessary to his or her discipline or career objectives. Prerequisites: German 112 or advanced placement.

322	Advanced Composition and Conversation	4 hpw
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Designed for students who have acquired a working knowledge of the language, this course offers practice in advanced composition and conversation. Prerequisites: German 213 or permission of the German faculty.

331	German Culture and Civilization	4 hpw
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An introduction to German history, art and literature from the Middle Ages to the present, with emphasis on contemporary German and its influence in North America. Prerequisites: German 213 or permission of the German faculty.

190, 290	Special Studies in German
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390, 490

199, 299	Guided Independent Study in German
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399, 499

Courses in Spanish

111, 112 Spanish Language I, II	5 hpw
Communicating in Spanish on a practical level. The grammar is presented by means of comparisons and contrasts with the English language. This course assumes active participation by the student, both in and out of class.	
213 Spanish Language III	4 hpw
Assumes a basic ability to use Spanish. This course is individualized as much as possible to allow each student to acquire the particular vocabulary and skills necessary to his or her discipline or career objectives. Prerequisites: Spanish 112 or advanced placement.	
322 Advanced Composition and Conversation	4 hpw
Designed for students who have acquired a working knowledge of the language, this course offers practice in advanced composition and conversation. Prerequisites: Spanish 213 or permission of the Spanish faculty.	
331 Spanish Culture and Civilization	4 hpw
An introduction to Spanish history, art and literature from the Middle Ages to the present, with emphasis on contemporary Spanish and its influence in North and South America. Prerequisites: Spanish 213 or permission of the Spanish faculty.	
190, 290 Special Studies in Spanish	
390, 490	
199, 299 Guided Independent Study in Spanish	
399, 499	

Courses in Greek (Not offered in 1977-1978)

101-102 Elementary Greek	3 hpw
Grammar, syntax, pronunciation, and translation. During second term selected readings from Classical Greek and Koine. Assigned readings in English in Greek history and literature.	
201-202 Intermediate Greek	3 hpw
Translation from Homer's <i>Iliad</i> , Xenophon's <i>Anabasis</i> , and other Classical Greek literature, and from the Gospel of John. Assigned readings in English in Greek culture and literature. Prerequisite: Greek 101-102 or the equivalent.	

Courses in Hebrew (Not offered in 1977-1978)

101-102 Introduction to Comparative Semitics	3 hpw
Using Hebrew and Aramaic as models, this course serves as an introduction to the comparative study of Semitic languages, and prepares the student to do special studies in Old Testament. Prerequisite: Permission of the instructor.	

Courses in Language

251	Introduction to Linguistics	3 hpw
Introduction to an understanding of language structures: phonetics, phonemics, and morphology. English syntax and grammatical systems, including transformational grammar, will be considered. The course will include a module encompassing the teaching of reading.		
313	Modern Foreign Languages in the High School	4 hpw
A study of methods, materials, and problems of teaching modern languages in the high school. Required for teacher certification. Does not count as a major course in French or Modern Languages. Normally offered as a part of the internship semester.		

Literature

The faculty are from the English and Foreign Languages Programs.

Major in Literature

The literature major consists of two of the following literature courses: 210, 211, 212, French, German, or Spanish 111, 112, 213; and eight literature courses in English, French, German, or Spanish, or foreign literature in translation, at least seven of which must be at the 300-400 level. If appropriate, a course in literature in translation will carry the corresponding number of the foreign language course. It is assumed that a literature major will be interested in exploring a wide range of these literatures.

Contract Majors in Literature

Literature also offers three contract-major options:

1. Preparation for Comparative Literature
2. Creative Writing and Translation
3. Literature with a Linguistics/Language Concentration

General Requirements for the contract-major options:

1. Courses in at least three different national literatures
2. Literature 210: *Classics of the Western Literary Tradition*
3. English 301: *Shakespeare*
4. Two terms of a foreign language

Specific requirements and recommendations for the contract-major option:

1. Preparation for Comparative Literature:
 - a. English 302: *Chaucer* (strongly recommended)
 - b. A second foreign language (strongly recommended)

2. Creative Writing and Translation
 - a. English 215: *Creative Writing* (required)
 - b. Language 251: *Introduction to Linguistics* (required)
 - c. Philosophy 210: *Introduction to Logic* (required)
 - d. Mathematics 110: *Logic, Proof and Systems* (strongly recommended)

Courses in Literature

210	Classics of the Western Literary Tradition	3 hpw
Studies in the major formative classics of the West. Emphasis will be on the continuing significance of these texts for understanding the human condition. (Also offered as English 210.)		
211	Masterpieces of English Literature	3 hpw
A survey of major works of English literature. Readings will generally be drawn from Beowulf, Chaucer, Spenser, Milton, Donne, Dryden, Pope, Johnson, Wordsworth, Shelley, Keats and Browning. Special attention will be given to themes of perennial interest, such as love and death, man and woman, freedom and servitude. (Also offered as English 211.)		
212	Literature of the Non-Western World	3 hpw
Readings in selections of non-Western literature. Special attention will be given to these texts as indexes of culture, as clues to human values and thought-patterns, and as commentaries on cultural assumptions. (Also offered as English 212.)		
251	Black American Literature	3 hpw
The mind and spirit of the American Negro as expressed in his literary art. Works by 20th century black Americans such as W. E. B. DuBois, James Weldon Johnson, Claude McKay, Jean Toomer, Langston Hughes, Richard Wright, Ralph Ellison, James Baldwin, Melvin B. Tolson, Gwendolyn Brooks, LeRoi Jones, and Don L. Lee.		
252	American Indian Literature	3 hpw
A study of American Indian literature in its cultural context. Works studied include myths, legends, tales, songs and sacred chants from the oral literature as well as recent works of fiction by and about American Indians.		
309	Modern Novel	4 hpw
A study of representative novels of the 20th century. Analysis of novels by Lagerkvist, Gide, Mauriac, Camus, Bernanos, Silone, Paton, Unamuno, and Greene. Prerequisite: Junior standing or consent of the instructor.		
310	Classic Theatre of Italy, Spain and France	4 hpw
Selected examples from the classic theatre of Italy, Spain and France, with attention given to dramatic theory and criticism of the period. The impact and influences of these national theatres upon others will also be examined.		

311	French Surrealism	4 hpw
A study of the literary origins, development, theory, practice and influence of the Surrealist movement. Although special attention will be paid to Surrealist poetry, the novel, theatre and art will also be discussed.		
312	Selected Short Stories and Novels of Thomas Mann and Hermann Hesse	4 hpw
The course will concentrate on literary structure, style, themes, leitmotifs, historical and cultural background. Readings will include Mann's <i>Death in Venice</i> , <i>Tonio Kröger</i> , <i>Mario and the Magician</i> , <i>Tristan</i> ; and Hesse's <i>Beneath the Wheel</i> , <i>Demian</i> , <i>Steppenwolf</i> , <i>Narcissus and Goldmund</i> , <i>Siddhartha</i> .		
190, 290 Special Studies in Literature		
390, 490		
199, 299 Guided Independent Study in Literature		
399, 499		

Music

Professor Horn; Associate Professors Wilkins (Chairman) and Williams; Assistant Professors Ellsworth, Kesselman

The Music Program has been a full member of the National Association of Schools of Music for over twenty years. The program not only provides a preparation for a career in music, but also provides opportunities through which music can play an important role in the lives of all students.

Major In Music

The Music Program offers two majors. The student may choose to major in music education, which has a list of specific courses in accordance with the requirements of the state of North Carolina and the National Association of Schools of Music. These courses are Music 200, 210, 211, 310, 311, 313, 330, 331, 404 (300, 301, 302 — a choice of two) and at least four terms of applied music. In addition to the core requirements Psychology 201, 303 and Education 315, 320 (or Language 251), 420-421 are also required.

The second major is a contract program in which a student may design contracts in such areas as Professional and Studio Musicianship, Music Theater, Music Business, Music Therapy, and Music Criticism, areas which transcend many of the traditional approaches of music curricula.

The contract major is designed to meet the needs and preferences of the individual student. Course choices for contract majors are individually developed by each student in consultation with the advisor and are subject to program approval. This flexibility permits the student to contract specific courses which are deemed necessary to chosen professions. The basic guidelines for the contract major are as follows:

The contract must include no fewer than 10 courses, of which six must be on the 300-400 level. All music contracts must include Music 200, 210 and 211.

Courses in Music

100	Music Fundamentals, Class Piano and Guitar	3 hpw
Designed for the non-music major who wishes to gain an understanding of the basic fundamentals of music theory and the application of this knowledge in performing skill in piano and guitar. The course may serve as preparation for further study in music such as upper level history, theory, or literature courses, or private lessons in voice or instruments, as reinforcement for students, in teacher training programs, as a means of strengthening the background of music students with deficiencies, and in other ways.		
200	Structure and Styles — Historical Survey	3 hpw
Designed for the non-major as well as the music major. Works of important composers from all periods will be studied. Emphasis will be on listening.		
210	Fundamentals of the Structure of Music I	4 hpw
Designed to provide a foundation in basic musicianship. This course is an integrated study of notation, clefs, modes, scales, intervals, triads, beginning harmony, sight singing, ear training, melodic and rhythmic dictation plus keyboard harmony. Basic principles of harmony are emphasized.		
211	Fundamentals of the Structure of Music II	4 hpw
Designed to follow Music 210. This course is a continuation of integrated study applied to the harmonic language of the eighteenth and nineteenth century classicism. Principles of part writing and voice leading will be stressed. Prerequisite: Music 210 or permission of the instructor.		
251	The Enjoyment of Music (Music Appreciation)	3 hpw
A listening course designed for the non-music major. This is a basic course in the development of perception in listening to music for enjoyment.		
300	Music of the Renaissance and Baroque Eras	4 hpw
A historical/analytical study of music of these eras. This course consists principally of stylistic studies of these two periods with particular emphasis on common stylistic denominators. To be offered Spring 1978.		
301	Music of the Classical and Romantic Eras	4 hpw
A historical/analytical study of these eras. This course consists principally of stylistic studies of these two periods with emphasis on the perfection of Haydn and Mozart, the struggle between form and content, and the rise of musical nationalism. To be offered Spring 1979.		

302	Music of the Modern and Contemporary Eras	4 hpw
A historical/analytical study of these eras. This course deals with the study of the expanding media and materials of modern music from Impressionism to electronic music, with emphasis on the works of Debussy, Stravinsky, Schoenberg, Hindemith, and Bartok. To be offered Spring 1980.		
310	Advanced Studies in the Structure and Styles of Music I	4 hpw
Continuation of music theory. Emphasis will be on small form and analysis, tonicization, modulation., modal alterations, and use of the seventh and altered chords. Prerequisite Music 211.		
311	Advanced Studies in the Structure and Styles of Music II	4 hpw
Designed to follow Music 310. This is a continuation of the prior term with emphasis on large form analysis and counterpoint. Stressed will be the composing of original music in smaller forms. Prerequisite Music 310.		
313	Music and Methods (K-12) in the Public Schools	4 hpw
Materials and methods for the music specialist. Emphasis will be placed on programming, curriculum, teaching technics, and program building. Use of simple classroom instruments (such as the autoharp, piano, Orff instruments, etc.) will be applied in the brief teaching.		
330	Integrated Methods — Basic Conducting, Orchestration and Technics	4 hpw
The technics of basic musicianship in these areas. This course is designed to give students a working knowledge of classroom instruments. Emphasis will be on teaching basic classroom conducting patterns with small ensemble orchestration using classroom instruments.		
331	Integrated Methods — Advanced Conducting, Orchestration and Technics	4 hpw
A continuation of Music 330 with brief teaching included. Performance on instruments from various families will be continued with emphasis on the coordination of both hands in conducting — orchestration will be concerned with large forms. Prerequisite: Music 330 or permission of the instructor.		
334	Folk and Ethnic Music of the World's Peoples	4 hpw
An introduction to Ethnomusicology with emphasis on African, native American, Eastern European, and Asian music. Attention is given to cross cultural quantitative analysis of traditional singing styles in their social and cultural contexts, as well as folk instrumentation and acculturation theory. The ability to read music is not required. (Also offered as Anthropology 334.)		
353	Music in the Elementary School	4 hpw
A study of the fundamentals of music and the methods and materials for teaching music in elementary school. This course is designed for education majors in accordance with the requirements of the state of North Carolina. This class will organize into sections according to musical development, working together at least one meeting per week in examination of current classroom materials.		

407	The Analysis of Form in Music	4 hpw
Concentrated study of form in music from the smallest elements (motives, phrases and period structure) through the large homophonic and contrapuntal forms. Emphasis on development of formal structure will be closely related to historical chronology beginning with the Renaissance and moving to contemporary adaptation and creation of new forms.		
408	Counterpoint	4 hpw
Introduction to and development of minimal skills in 16th century contrapuntal practice. This will be followed by concentrated studies in the 18th century style of Baroque counterpoint: analysis, singing and aural development will be correlated with written work.		
404	Practicum in Conducting and Vocal Technics	4 hpw
The student will be required to spend half of the time in the classroom with emphasis on vocal technics with the other half spent as "assistant conductor" in an ensemble.		
451-452	Piano Pedagogy and Literature	4 hpw
A study of the materials and methods of piano literature and teaching technics. Lectures will be given on materials and there will be supervised practice teaching.		
455-456	Voice Pedagogy	4 hpw
A study of the methods of solo voice technics for studio and class teaching. This will include a historical study of solo voice literature from Elizabethan song through the 20th century.		
190, 290	Special Studies in Music	
390, 490		
199, 299	Guided Independent Study in Music	
399, 499		



Applied Music

Applied music study is open to all students of the College at the special fee scale listed in the cost section of this catalog. Lessons are available on a half-hour or hour basis. The half-hour lesson is principally designed for the non-major with four terms equaling a course credit. These credits can be interchangeable with ensemble credits to create a course credit. (Two half-hour lessons plus two ensembles equal a course credit.) The hour lesson when combined with an ensemble during the same semester will constitute one course credit. Successful completion of four hour lessons plus four ensembles (four courses) will be equivalent of five courses.

Ensembles

Ensembles are open to all students of the College. Students enrolled in performing organizations are required to participate in all performances of such organizations. Offered each fall and spring term, ensembles carry one course credit upon completion of four terms of ensemble work.

- St. Andrews College Choir
- St. Andrews Chamber Singers
- St. Andrews Jazz Ensemble
- St. Andrews Stage Band
- St. Andrews Dixieland Band
- St. Andrews College and Community Band
- Chamber Ensembles

Music Lessons and Ensembles

- 000 Beginning Study (non-credit)
- 100 First Level of Study
- 200 Second Level of Study
- 300 Third Level of Study
- 400 Fourth Level of Study

The numerical levels of performance correspond with the areas listed in the music program handbook. Studio lessons — in groups of two when applicable — will be given on levels 0 to 2. Individual lessons will be given to those students who perform on levels 3 and 4.

The second digit refers to the applied area: 5-voice, 6-piano, 7-organ, 8-brass or percussion instruments and 9-woodwind or string instruments. The third digit refers to the semester in which the lesson is given.

Philosophy

Professor Alexander; Associate Professors Crossley, Prust (Chairman); Assistant Professor Ludlow

Major in Philosophy

Requirements for the standard major include 12 courses in philosophy including philosophy 210 and at least eight courses on the 300-400 level. For a student planning graduate work in philosophy the following courses are recommended: Philosophy 211, 301, 302, 303, 304, 401, and 408.

Contract Major

In addition to the standard major, the philosophy program offers students options of designing and contracting a major which has an emphasis in some areas of study the student wishes to relate to philosophy (e.g., religion, politics, literature, physics, history, etc.), or with a particular pre-professional emphasis (e.g., pre-law, pre-theology, etc.). The terms of these contracts are negotiated by the applicant and the program faculty; the only general requirements are that 1) they include a minimum of eight courses in philosophy at least five of which are at the 300-400 level, and 2) the contract include twelve courses at least six of which are at the 300-400 level.

Major in Religion and Philosophy

Requirements for the joint major in religion and philosophy are determined for each applicant by an agreement approved by the division. The student, aided by a faculty adviser, will design a major program mutually acceptable to the student and the division. The program should include at least eight courses on the 300-400 level. The student is encouraged to include courses in other departments. The joint major in religion and philosophy is recommended for students who do not intend to pursue graduate studies in the disciplines.

Courses in Philosophy

Courses on the 100-200 level are open to first and second year students. Courses on the 300-400 level are designed for juniors and seniors and are open to others only by special permission.

100	Introduction to Philosophy	3 hpw
Consideration of basic problems of philosophy, such as the nature of reality, the possibilities of human understanding, the relation of the mind to physical existence, the difference between right and wrong, the relation between the individual and society. Recommended as a first course in philosophy.		

210	Introduction to Logic	4 hpw
A study of traditional and Aristotelian logical structures and categories, including the necessary components of an argument, analyses of arguments presented in ordinary language, recognition of arguments containing informal fallacies, and inductive or inferential processes.		
211	Religions of China and Japan (See Religion 211)	
212	Ethics	3 hpw
An evaluation of historical alternatives which confront people today: the meaning of such categories as right and wrong, good and evil, and justice and injustice.		
213*	Aesthetics	3 hpw
A critical examination of what men have considered beautiful and perceptually satisfying or pleasing. The course involves a historical study of the norms used to evaluate the beautiful as well as a systematic study of the relation of beauty to reality, to the beholder, and to the artist.		
214*	Philosophy of Religion	3 hpw
A survey of the various philosophical investigations of religious experience and truth claims. Rational, empirical, existential, and analytic approaches will be explored for their answers to a number of problems, such as the basis for religious truth claims, the relationship of religious truth to historical and scientific truth, the validity of arguments for the existence and nature of God, and the differences between Eastern and Western religious thought.		
215*	Philosophy of Science	3 hpw
A systematic and critical study of the methodologies of the social and natural sciences, including an analysis of their presuppositions, sources, concepts and aims. The course also examines assumptions about the nature of man, including the indeterminant aspects of man's participation in and knowledge of the world. Recommended for students in the social and natural sciences and students in the humanistic disciplines who wish to reflect upon the scientific enterprise.		
216*	Existentialism	3 hpw
The philosophy of existence, studied through the works of such thinkers as Nietzsche, Sartre, Jaspers, Berdyaev, Ortega, Buber, and Camus. Existentialism in its influence in political theory, literature, and the fine arts is also treated.		
301*	The Beginnings of Philosophy	4 hpw
The history of Hellenic and Hellenistic philosophy from its beginnings in myth and religion. Emphasis upon the major thinkers and movements of the Greek world, beginning with the pre-Socratics, and concluding with philosophy in Roman times. Concentration upon Plato and Aristotle.		
302*	Jewish, Christian and Islamic Philosophy	4 hpw
A study of philosophy as created by Jewish, Christian, and Islamic cultures and of the problems posed for philosophy by the monotheistic faiths. This		

*Normally taught in alternate years.

course will consider the background and contributions of such men as Augustine, Anselm, Averroes, Maimonides, and Thomas Aquinas. Several modern thinkers in these religious traditions will also be considered.

303*	Modern Philosophy and the Scientific Revolutions	4 hpw
A study of the impact of modern science on Western philosophy and the response of major thinkers to changes in views of the world and man. The course concentrates on the major figures from Descartes to Kant.		
304*	Recent Philosophy and the Social Revolutions	4 hpw
A study of the development of thought from Kant to Hegel and of the varieties of reaction to Hegelianism, including Kierkegaard, Nietzsche, and Marx. Some consideration will be given to other nineteenth century philosophers.		
311*	Advanced Logic	4 hpw
A study of the modern developments in logic which extend the formal structures to include not only categorical sentences and syllogistic forms but also truth-functional logic and quantificational symbol systems. Prerequisite: Philosophy 210.		
401*	Contemporary Philosophy of Language Analysis	4 hpw
An investigation of the various schools of language analysis which have developed in this century. Russell, Wittgenstein, the logical positivists, G. E. Moore, and such contemporary thinkers as Austin, Strawson, and Ryle will be considered. Prerequisite: Philosophy 210.		
403*	Phenomenology	4 hpw
An examination of the origins of this influential contemporary philosophy in Husserl and a study of its development in other contemporary thinkers such as Max Scheler, Maurice Merleau-Ponty, Erwin Straus, Paul Ricoeur, and John Wild.		
404*	American Philosophy	4 hpw
An investigation of American contributions to philosophy. Emphasis upon the works of James, Royce, Santayana, Whitehead, and Dewey.		
406	Advanced Problems in Philosophy	4 hpw
A critical examination of current philosophic problems and their historical antecedents, with special attention given to the students' abilities to face these problems creatively and imaginatively. Prerequisite: senior standing.		
408	Religions of India (See Religion 408)	
190, 290	Special Studies in Philosophy	
390, 490		
199, 299	Guided Independent Study in Philosophy	
399, 499		

*Normally taught in alternate years

Religion

Professor Bullock (Chairman); Associate Professor Crossley; Instructor Paul

Major in Religion

Requirements for the major in religion include 10 courses, of which 6 are required (2 in Biblical studies, 2 in history of religions, and 2 in theology and ethics) plus 4 electives. At least 6 courses must be 300-400 level courses. A contract major in religion in which the student, aided by a faculty adviser, designs a major problem acceptable to the student and the religion faculty is available. The religion program also participates in the development of thematic majors.

Graduate schools usually require reading competence in French and German. Courses in these languages are therefore strongly recommended for anyone planning graduate studies.

Major in Religion and Philosophy

A description of the major is given under the Philosophy Program.

Courses in Religion

Courses on the 300-400 level are designed for juniors and seniors and are open to others only by special permission.

103	Introduction to the Study of Religion	3 hpw
	An introduction to the fields and methodologies in the study of religion. Descriptions and interpretations of the religious dimensions of human life will be examined in the context of liberal learning.	
105	Understanding the Bible	3 hpw
	An introduction to major themes and ideas of the Old and New Testaments in their historical context. Offered primarily for non-majors who want a general course in Biblical study.	
106	Early Christianity	
	An historical study of the development of Christianity from its beginnings to 200 A.D. This will include a study of the New Testament literature, the Apostolic Fathers, the apocryphal gospels, and the varieties of Christianity which developed within the period. Particular emphasis will be placed upon the study of Jesus in relation to the early Church.	
206	The Old Testament World	3 hpw
	A study of the East Mediterranean coastlands during the Iron Age and including the Hellenistic Period. The course will examine the geographical, technological, literary, and cultural developments of this 1,000 year span in which many of the Western world's most significant characteristics emerged.	

208	Religions of the Near East	3 hpw
	A study of the major religious traditions of the Near East, including Judaism, Islam, Zoroastrianism, Egyptian and Mesopotamian religion, and early Christianity. Special attention will be given to such ancient religious texts as the Egyptian <i>Book of the Dead</i> , the <i>Gilgamesh Epic</i> , and the Hebrew Scriptures. (Normally taught in alternate years.)	
210	Religious Traditions of East Asia	3 hpw
	A study of the major religions of China and Japan. Special attention is given to interactions of Confucian, Taoist, Shinto, and Buddhist traditions.	
211	Religions of East Asia	3 hpw
	A study of the major religions and philosophies of China and Japan, including Confucianism, ancestor cults, Taoism, Buddhism, Shinto, and Zen Buddhism. Original texts, such as writings of Confucius and texts of Zen Buddhism, will be studied. (Normally taught in alternate years.) (Also offered as Philosophy 211)	
212	Theology of the Reformation	3 hpw
	A study of the formative period of Protestantism by examination of the writings of Luther, Calvin, Hooker, etc. Major Protestant doctrines, their relationship to Catholic formulations, and their relationship to subsequent Protestant thought since the Reformation will be considered.	
213	Christian Ethics and Contemporary Social Issues	3 hpw
	An investigation of the fundamental problems of Christian ethics. This course seeks to develop the student's ability to make practical ethical decisions as well as to comprehend the basic approaches to Christian ethics. Several areas of moral concerns will be dealt with in the form of case studies. Such areas may include human sexuality, racism, sexism, politics, Marxism, and crime.	
301	Luke-Acts	4 hpw
	A study of the two-volume New Testament work which deals with the origin and development of the Christian Church. The course will focus on the theology of the author as it is expressed in both form and content.	
304	The Biblical Prophets	4 hpw
	An examination of the roots and development of the concern of Biblical religious faith and society. This course will focus on the Old Testament prophets.	
306	Religious Thought of America	4 hpw
	An investigation of selected movements, men, and ideas that have contributed significantly to the development of American religious traditions.	
307	Christianity before 1500	4 hpw
	A study of both the history and the theology of the Christian religion from its origins to the conclusion of the medieval era. Emphasis will vary from year to year, but topics covered will generally include the formation of the creeds, the thought of Irenaeus, Origen, Augustine, and Thomas Aquinas. (This is the first semester of a two-semester sequence)	

308	Christianity since 1500	4 hpw
A study of both the history and the theology of the Christian religion from the Protestant Reformation to the present day. Luther, Calvin, Schleiermacher, Barth, and developments in American religion, Roman Catholicism, and modern religious thought will be covered. (This is the second semester of a two-semester sequence.)		
312	Studies in Buddhism	4 hpw
An investigation of selected areas of the Buddhist tradition, with emphasis on Buddhist responses to intellectual and institutional changes in the modern world. (Also offered as Philosophy 312.)		
401	Modern Christian Theology	4 hpw
A careful analysis of trends in modern Christian theology by means of investigating works of such figures as Schleiermacher, Troeltsch, Barth, Bultmann, Niebuhr, and Tillich, culminating in the reading of living theologians such as Langdon Gilkey. Roman Catholic and Jewish thought will also be considered. Prerequisite: At least one course (two are preferred) in Bible, theology, or ethics, or consent of the instructor. (Normally taught in alternate years.)		
403	Paul	4 hpw
A study of the major ideas of the apostle Paul as these are found in his letters. Particular emphasis will be placed on the doctrines of God, man, and salvation. (Normally taught in alternate years.)		
405	The Fourth Gospel	4 hpw
A study of the major themes in John with special emphasis on the author's adaptation to the cultural changes faced by the Church in the Hellenistic world. Attention is also given to the First Letter of John. (Normally taught in alternate years)		
408	Religions of South Asia	4 hpw
A study of the many diverse religions and philosophies of the Indian sub-continent over a period of 5,000 years, including Hinduism, Jainism, Buddhism, and Islam. Ancient Scriptures read in this course include the <i>Bhagavad Gita</i> and excerpts from the <i>Vedas</i> , <i>Upanishads</i> , and Buddhist, Jainist, and Islamic texts. Prerequisite: One course in history of religions, a background in anthropology, history, or philosophy, or consent of the instructor. (Also offered as Philosophy 408; normally taught in alternate years.)		
410	Religion in the Contemporary World	4 hpw
A comparative study of religious themes and issues related to modernization processes and contemporary values. Major spokesmen for the major religious traditions of the world will be considered.		
190, 290	Special Studies in Religion	
390, 490		
199, 299	Guided Independent Study in Religion	
399, 499		

Theatre

Associate Professors McDonald (Chairman) and Ford

Major in Fine Arts with an Emphasis in Theatre

The fine arts major with an emphasis in theatre includes the following major requirements: nine theatre courses (Theatre 103 or 203, 205, 311, 312, 404, 406, and two electives), Music 251, and one course in art.

In addition to the standard major, the theatre program offers students options of designing and contracting a major which has an emphasis in some area of study the student wishes to relate to theatre (e.g., music, English, literature, art, religion, physical education, history, etc.) or with a professional emphasis (children's theatre, religious drama, performance: acting/directing, scenic design, arts and recreation, etc.).

The terms of these contracts are negotiated by the applicant and the program faculty; the only general requirements are that 1) they include a minimum of eight courses in theatre at least five of which are at the 300-400 level, and 2) the contract include twelve courses at least six of which are at the 300-400 level.

Requirements for those students seeking teacher certification in theatre arts are: Theatre 103, 203, 205, 311, 312, 313, 404, 406 and one elective; Psychology 303 or Education 308; and Education 202, 315, 320 or Language 251, and Education 420-421. The student majoring in this program is encouraged to concentrate the electives in a particular



area (English, modern foreign language, social studies, etc.) so that he or she might be qualified to teach in a subject area in addition to theatre. The student is encouraged to take Music 251 and courses in art. An evaluation of the student's work with the Highland Players and an indication of the areas in which the student has demonstrated leadership with the St. Andrews theatre group will be attached to the student's teacher education record.

Courses in Theatre

103 **Fundamentals of Speech**

An introduction to public speaking. The student will prepare and deliver a series of informative and persuasive speeches as well as participate in voice and diction exercises, extemporaneous speaking, and critical analysis of speeches.

203 **Acting I**

An introduction to the art of acting with the primary focus on the physicalization of character in reference to character development and depth. This laboratory course explores actor motivation through dance, mime, yoga, and vocal techniques as developed through group interaction.

205 **Technical Theatre**

This course seeks to familiarize the student with the basic skills of stagecraft. Set construction, prop construction, technical terminology, and basic lighting techniques comprise the major emphases of this lecture/lab course. Some production crew work with the Highland Players' presentations will be required.

304 **Acting II**

This laboratory acting course for advanced students of acting deals predominantly with scene work in conjunction with acting styles. The acting student will discover various techniques in character analysis, action, emotional response, and movement.

307 **A History of the Motion Picture**

An introduction to the film as an art form in the twentieth century. Films by directors such as Griffith, Eisenstein, Lang, Renoir, Bergman, Truffaut, and Welles will be seen, analyzed, and discussed so that the student can gain an awareness of the history of the film and an ability to view films critically.

311 **History of the Theatre**

An introduction to the study of theatrical production in previous ages. Through research, lectures and discussions the class will examine theatre practices from the Greeks to the moderns with the focus on the actor and the elements (architecture, staging methods, scenery, etc.) that support him as a performing artist.

312 **Forms and Styles of Dramatic Literature**

A survey of play scripts from the ancient Greeks to the contemporary period. The class will read, analyze and discuss various styles (Greek, Elizabethan,

Neo-classic, Romantic, Realistic, Absurd, etc.) of the major forms of drama (tragedy, comedy, and melodrama).

313 Teaching Theatre in the Schools

A study of the problems, solutions, and techniques of teaching theatre. In addition to the exploration of problems, the student of theatre education will explore curricula, teacher certification, teaching materials, and job opportunities. This course is restricted to theatre education majors and is taught in conjunction with student teaching internships.

320 Playwriting

A beginning course in writing scripts for theatre performance. The course will provide the student with an understanding of dramatic structure and will create a critical environment for the writing of plays. Each student will read from works written and will analyze works prepared by classmates. There will be public performance of some of the plays if possible.

404 Directing

An introduction to the theories and practices of play direction. The class will discuss the tasks of directing in conjunction with workshop scenes to be staged in the class. At the end of the course each student will stage a play for public performance.

406 Scene Design and Stage Lighting

A composite course emphasizing two key areas of design: lighting and scenic design. The course encompasses the practical and theoretical elements of design and demands a working knowledge of light plots, working drawings, color renderings, and complete ground plans.

408 Filmmaking

An introduction to the techniques of filmmaking. There will be projects that will include scripting, motion picture photography, editing, sound recording, and lighting as preparation for the presentation of a film to be produced by each student. The student will furnish his own camera, film and recording tape.

380, 480 Problems in Technical Theatre

Directed projects in aspects of technical theatre design and construction (scenery, costumes, lighting, etc.) which will be planned, developed, and completed as a part of the production work of the Highland Players. Permission of the Theatre Program chairman is required.

190, 290, Special Studies in Theatre

390, 490

Topics for Special Studies have included: Pantomime, New Materials in Technical Theatre, Puppet Theatre, Experimental Theatre, and Shakespearean Production.

**199, 299 Guided Independent Study in Theatre
399, 499**

Division of the Mathematical, Natural, & Health Sciences

Chairman: David E. Wetmore

Programs

Biology
Chemistry
Mathematics
Physics
Physical Education

MAJORS

Allied Health
Biology
Business-Chemistry
Chemical Physics
Chemistry
Mathematics
Mathematics and Computer Science
Physical Education
 Pre-medical
 Pre-dental
 Pre-veterinary
 Pre-paramedical

A variety of careers in the health sciences may be pursued at St. Andrews where students can develop expertise in medically related skills such as electron microscopy, nuclear magnetic resonance spectroscopy, gas chromatography, and radioactive isotope techniques.

Pre-medical and pre-dental students can acquire necessary background for professional training by completing courses in chemistry, biology, physics, and mathematics. Each student is urged to design, with the help of the pre-medical adviser, a course of study which will emphasize the student's areas of interest and also satisfy the entrance requirements of professional schools. Participation in the activities of the Health Club will give students a broad view of the health professions. Pre-medical and pre-dental students are encouraged to arrange winter term internships to obtain early experiences in the medical professions.

Individualized courses of instruction, coupled with a four-year program designed to broaden the student's career options have enabled a majority of qualified graduates to pursue professional training of their choice.

The Allied Health Committee directs courses of study leading to careers in cytotechnology, hospital administration, nursing, radiation therapy, occupational therapy and optometry. Curricula which will provide for completion of precise requirements for entrance into the above professional programs are designed by the student in consultation with the Allied Health Committee. A complete description of the Allied Health Major is described elsewhere (pp. 41).

Medical technology certification and the Bachelor of Science degree are normally conferred after three years of study at St. Andrews and one year of clinical training at an American Medical Association-approved school of medical technology. The three-year program at St. Andrews is designed to meet minimal entrance requirements in the medical technology schools and includes the following courses: Biology 201, 202, 210, 302, 305; Chemistry 201, 202, 303, 304; and Math 115 and 205. Specific schools of medical technology may require additional entrance requirements. St. Andrews has a special cooperative arrangement in the medical technology program with Cape Fear Valley Hospital, Fayetteville, N.C. (Over the past five years students have been accepted into the medical technology programs at Charlotte Memorial Hospital, Duke University, The Medical College of Virginia, The University of North Carolina, Chapel Hill, and The University of Virginia.)

Curricula which prepare for physical therapy certification usually require two or three years of study at St. Andrews and one or two years of training at a school of physical therapy. The completion of the Burris Rehabilitation Center on the campus and the development of programs in paraplegic and quadraplegic education and housing provide a unique experimental environment for the student of physical therapy at St. Andrews. Students interested in physical therapy will be advised by members of the Allied Health Committee.

Courses of study leading to careers in social medicine, cytotechnology, nursing, inhalation therapy, optometry, and veterinary medicine are also available. Curricula which provide for the completion of precise requirements for entrance into the above professional schools are designed by the student in consultation with the Pre-Medical Committee.

Biology

Assistant Professors Applegate (Chairman), Torres, Instructor Jones

Major in Biology

The biology major is a contract major which is designed by the student with the aid of a faculty advisory team. The major requirements for both the Bachelor of Arts and the Bachelor of Science degrees consist of a program mutually acceptable to the student and the advisory team. The student program is then approved by the faculty of the Division of the Mathematical, Natural, and Health Sciences. This flexibility enables pre-medical and pre-dental students to construct their major program to meet the requirements of the specific professional schools of their choice. A student intending to go to graduate school in biology or other related fields such as anthropology, sociology, or psychology may also tailor a program to the requirements of a particular school. Programs may also be constructed by the student who plans to teach in secondary schools or enter industry or government. Students who anticipate not using their biological training in graduate or professional studies may elect a series of courses which best meet the needs of their liberal arts education.

Courses in Biology

201	Organismal Biology	6 hpw
A survey of the animal and plant kingdoms with emphasis on morphology, evolutionary relationships, and classification. Lecture: three hours; laboratory: three hours. Prerequisite or co-requisite: Selected Topics in Modern Science 101, 102 or consent of the instructor. Offered each fall term.		
202	Genetics	6 hpw
The principles of heredity at the organismal and molecular level. Topics treated in lecture include Mendelian genetics, cytoplasmic heredity, population genetics and the molecular aspects of mutation and protein synthesis. Lecture: three hours; laboratory: three hours. Prerequisite or co-requisite: Natural Science 101, 102 or consent of the instructor. Offered each spring term.		
207	Human Anatomy and Physiology	6 hpw
An introduction to human biology covering anatomical structure and function of various systems: skeletal, muscular, digestive, endocrine, nervous, urinary, reproductive and integumentary. Intended for physical education, education, allied health and social science students. Offered in fall term of odd-numbered years. Prerequisite: Biology 201 or consent of the instructor.		
210	Microbiology	6 hpw
A study of microorganisms and their activities. Primarily a laboratory course emphasizing the staining properties and biochemical activities of bacteria, activities of viruses, structure of algae and fungi, immunology, and microbial		

ecology. Lecture topics include population growth, microbial taxonomy, immunology and disease. Offered on alternate year basis beginning in 1975. Prerequisite: Biology 201 or consent of the instructor.

302	Cell Physiology	7 hpw
	A study of the structure, function, and dynamics of living cells with emphasis on the cell environment, bioenergetics, biological pathways, and coordination. Lecture: four hours; laboratory: three hours. Prerequisite: Biology 201, 202 and Chemistry 201, 202. Offered in even-numbered academic years, fall term.	
305	Embryology	7 hpw
	Chemical, physical, and morphological aspects of growth and development as exemplified by plants and animals. The concepts and relationships of fertilization, growth, differentiation, morphogenesis, systems control and feedback, and organogenesis are discussed. Lecture-discussion: four hours; laboratory: three hours. Prerequisite: Biology 202 and Chemistry 201 and 202. Recommended: Biology 302 or Chemistry 404. Offered in even-numbered academic years, spring term.	
307	Environmental Biology	6 hpw
	An introduction to the basic concepts of environmental biology especially emphasizing population problems, ecosystem dynamics, and the mechanisms of evolutionary development. Lecture: three hours; laboratory: three hours. Prerequisite: Biology 201 or junior standing. Offered each fall term.	
308	Radiation Biology	7 hpw
	An introduction to the theory and applications of radiological techniques in biology. Text and lecture will provide a technical and historical background, and students will provide state of the art information through seminars and laboratory projects. Topics included are introduction to radioisotopes, experimental techniques in radioisotope tracer studies, and effects of ionizing radiation on biological material. Offered on an alternate year basis beginning spring 1975. Prerequisites: Biology 307.	
316	Plant Structure and Function	7 hpw
	A study of the anatomy and physiology of vascular plants examining the plant cell and its metabolism, anatomy of plant organs, mineral absorption and nutrition, translocation of water and solutes, plant hormones, and reproductive physiology. Offered in odd-numbered academic years, spring term. Prerequisite: Biology 201.	
407	Functional Vertebrate Anatomy	7 hpw
	A study of major vertebrate classes focusing on the anatomy, evolution, and function of fishes, amphibians, and mammals. The laboratory involves the dissection of representative vertebrates. Recommended, though not required, for pre-medical, pre-dental, and pre-graduate students. Offered in even-numbered academic years, fall term. Prerequisites, Biology 201, 202.	
410	Mycology and Plant Pathology	7 hpw
	A survey of major groups of the fungi emphasizing life history, physiology,	

morphology, phylogeny and plant pathology. Special emphasis is placed on the study of organisms used as experimental tools in the study of genetics, hormones and developmental biology. Offered in odd-numbered academic years, fall term. Prerequisite: Biology 201.

190, 290 Special Studies in Biology

390, 490

199, 299 Guided Independent Study in Biology

399, 499

Chemistry

Professor Miller; Associate Professors Barnes, ** Wetmore (Chairman); Assistant Professors Stephens, Knight*

Major in Chemistry

Courses of study within the Chemistry Program are designed to meet the needs of the individual student. Course requirements for a chemistry major are developed by the student with the chemistry faculty and submitted to the Division of Mathematical, Natural, and Health Sciences for approval. Once approved, successful completion of a course of study satisfies the degree requirements of the Division for the appropriate degree, Bachelor of Arts or Bachelor of Science. The flexibility of the program allows each student to direct the program toward a specific career goal such as medicine; dentistry; law; health, environmental, and industrial science; research; or teaching.

The Chemistry curriculum offers a concept-centered approach that cuts across many traditional divisions of chemistry. In the laboratory, standard experiments and manuals have been replaced by an integrated series of open-ended projects.

Major in Chemical Physics

The interdisciplinary "contract" major in chemical physics has been designed by the division to open a field of study which is concerned with the fundamental understanding of matter at the molecular level. Generally classed as a theoretical science, chemical physics is interdisciplinary in nature and will appeal to the student who is more interested in the quantitative and mathematical description of molecular behavior than he is in its qualitative and experimental aspects.

*on leave of absence 1976 to 1978

**on leave of absence 1977-1978

Major in Business-Chemistry

The Chemistry Program participates in an interdisciplinary business-chemistry major designed for those with a strong interest in management in technically oriented fields. For major requirements, see the description under the Business Administration Program.

Courses in Chemistry

201	Bonding and Structure I	6 hpw
An introduction to the basic concepts of bonding and structure with emphasis on chemical periodicity and the atomic and molecular orbital theories of chemical bonding. Lecture: three hours; laboratory: three hours (See Laboratory I below). Prerequisite or co-requisite: Selected Topics in Modern Science 101 or consent of the instructor. Offered each fall term.		
202	Chemical Reactions I	6 hpw
An introductory treatment of organic reactions with emphasis on structure-activity correlations. Lecture: three hours (See Laboratory II below). Prerequisites: Selected Topics in Modern Science 101 or consent of the instructor. Offered each spring term.		
205	Environmental Chemistry	3 hpw
An introduction to energy and energy laws, principles of pollution and its control, air and water pollution, solid wastes, food additives, pesticides, and the health effects of various chemicals. Designed especially for students majoring in environmental studies, health sciences, and the social sciences. Offered fall term of even-numbered academic years.		
301	Bonding and Structure II	4 hpw
The quantitative aspects of the theories of bonding and structure are emphasized. Molecular orbital theory is used to examine progressively more complex systems. Theoretical and practical aspects of spectroscopy are explored in the determination of molecular structures. Lecture: four hours. Prerequisite: Chemistry 201. Prerequisite or co-requisite: Physics 201. Offered each fall term.		
303	Chemical Reactions II	7 hpw
An integrated study of organic reactions emphasizing structure, bonding, mechanisms, kinetics, and thermodynamics. Lecture: four hours; laboratory: three hours (See Laboratory III below). Prerequisite: Chemistry 202. Offered each fall term.		
304	Chemical Reactions III	7 hpw
A treatment of inorganic and organic reactions in solution with emphasis on equilibria calculations and applications to analytical chemistry. Lecture: four hours; laboratory: three hours (See Laboratory IV below). Prerequisite: Chemistry 202. Offered in even-numbered academic years, spring term.		

306	Thermodynamics and Kinetics I	4 hpw
Elementary thermodynamics and kinetics are approached through a study of energy and entropy changes for macroscopic phenomena, rate laws, and reaction mechanisms. Lecture: four hours. Prerequisite: Chemistry 201. Offered in odd-numbered academic years, fall term.		
401	Bonding and Structure III	7 hpw
Current techniques of treating chemical bonding will be examined and discussed. The universal simplifying concept of symmetry will be studied and applied to problems of molecular properties, structure and reactions. Lecture: four hours; laboratory: three hours (See Laboratory V below). Prerequisite: Chemistry 301. Offered in even-numbered academic years, spring term.		
402	Chemical Reactions IV (Biochemistry)	4 hpw
A study of the principles of chemistry as applied to biochemical systems. Lecture: four hours. Prerequisite: Chemistry 202. Offered in even-numbered academic years, fall term.		
406	Thermodynamics and Kinetics II	7 hpw
Applications of classical thermodynamics are investigated in relation to real gases, phase transitions, solutions and electrolytic solutions. Relationships between the macroscopic and microscopic are noted in the development of statistical mechanical concepts. The current literature is used to study recent developments in molecular kinetics and dynamics. Lecture: four hours; laboratory: three hours (See Laboratory VI below). Prerequisite: Chemistry 306. Prerequisite or co-requisite: Physics 202. Offered spring term of odd-numbered academic years.		
190, 290	Special Studies in Chemistry	
390, 490		
199, 299	Guided Independent Study in Chemistry	
399, 499		

Project-Oriented Laboratories in Chemistry

Laboratory I

The identity of unknown compounds are deduced through their spectral properties and derivatives, and selected physical properties of the compounds are measured.

Laboratory II

A mixture of two liquids is separated. Each component is then subjected to various chemical and physical tests for identification and characterization.

Laboratory III

A series of short-term research projects.

Laboratory IV

A coordination compound is synthesized and characterized by structure determination and physical properties.

Laboratory V

An individual research project based on a written proposal approved by the faculty. The results, expected to be of publishable significance, will be presented in a formal scientific paper.

Laboratory VI

An individual research project, often a continuation of Laboratory V.



Mathematics and Computer Science

Associate Professors Morgan, Rolland, Somerville (Chairman)

Major in Mathematics

A student who wishes to major in mathematics enters into a contractual agreement with the mathematics faculty to do so. All such contracts require that the student take at least ten courses in mathematics and computer science (excluding Math 207, 208, 313), at least five of which must be at the 300-400 level. In order to insure some breadth of training within the discipline, the contracts also require one course in computer science; one course in probability or statistics; and Math 471, representing pure mathematics. A contract may be written with a particular emphasis in mind, such as statistics, secondary teaching, data processing, or the mathematics applicable to another discipline.

Students who plan to teach at the secondary level should take Math 330. Math 313 is required for Class A certification as a secondary teacher of mathematics in the North Carolina schools.

Major in Mathematics with Concentration in Computer Science

It may be stipulated in the contract that four of the courses will be in computer science and that the major will be designated as Mathematics with Concentration in Computer Science.

Courses in Mathematics

110	Logic, Proof, and Systems	3 hpw
A study of the language and logic used in mathematics. The course is designed to give the general liberal arts student (including math and science majors) insight into mathematics by focusing on the structure and logic rather than specific content areas. Topics include sentential, deductive and quantificational logic, valid arguments, strategies of proof, mathematical and non-mathematical systems.		
115	Elementary Functions and Coordinate Geometry	3 hpw
A foundation course which serves as a prelude to calculus. This course stresses concepts, particularly functions and approximations, and provides a glimpse of calculus. Intended for students with an average background in high school mathematics.		
121	Calculus I	4 hpw
The first course in differential and integral calculus. Primary attention is given to derivatives and differentials although an introduction to both definite and indefinite integrals is also included. Prerequisite: Math 115, Math 110, or permission of the instructor. Offered each Spring Term.		

202	Calculus II	4 hpw
A continuation of the study of differential and integral calculus. While the primary emphasis is on integration, the differentiation of certain functions not covered in Math 121, such as trigonometric ones, is also treated. Prerequisite: Math 121 or permission of the instructor. Offered each Fall Term.		
205	Statistics	3 hpw
An introduction to elementary techniques of statistics. This course emphasizes the use of statistical inference in the study of population parameters and includes both estimation and hypothesis testing procedures. No prerequisite. Offered each Fall Term and Spring Term.		
207	The Real Number System and Its Subsystems	3 hpw
An axiomatic study of the real number system is developed through investigation of other systems of numeration, the natural numbers, integers, rationals and irrationals. Emphasis will be on underlying concepts and techniques. This course is especially appropriate for elementary education majors. Students who enroll in this course should have had a year each of high school algebra and geometry.		
208	Structures of Algebra and Geometry	3 hpw
The fundamental structures of elementary algebra and geometry are studied. Various algebraic and geometric systems are investigated. Students will gain experience in developing abstractions, logical deductions, and applications. This course is especially appropriate for elementary education majors. Pre-requisite: Math 207.		
221	Linear Algebra	3 hpw
A study of vector spaces, linear independence, linear transformations, the dot product in \mathbb{R}^n , matrices of linear transformations. Prerequisite: Math 121 or permission of the instructor.		
310	Multivariable Calculus	4 hpw
The algebra of n -space, functions of several variables and their derivatives, directional derivatives, chain rules, extrema problems, multiple integrals, an introduction to line integrals, and Green's Theorem. Prerequisite: Math 122.		
313	The Teaching of Mathematics*	3 hpw
A study of principles and objectives of secondary mathematics, general and specific techniques, organization of content and enrichment material including the history of mathematics. Prerequisite: permission of the instructor. Offered each spring.		
330	Geometry	3 hpw
A re-examination of geometry from a modern axiomatic viewpoint. The essential content of this course is Euclidean geometry. Prerequisite: permission of the instructor.		

*These courses do not count toward mathematics major requirements.

340	Ordinary Differential Equations	3 hpw
A study of methods for the solution of ordinary differential equations. Primary attention is given to the solution of linear equations and special nonlinear ones and to existence and uniqueness theory for the linear case. Prerequisite: Math 122.		
361, 362	Introductory Real Variable Theory	3 hpw
The real number system, set theory, countability of the rationals and uncountability of the reals, Euclidean spaces, Bolzano-Weierstrass and Heine-Borel Theorems, metric spaces, completeness, continuity, differentiation, the integral series of complex numbers, series of functions and series expansions are investigated. Prerequisite for Math 361: Consent of the instructor. Prerequisite for Math 362: Math 361. Offered on alternate years.		
471	Algebraic Structures	3 hpw
An introduction to the algebraic structure of groups, rings, integral domains, fields, and graphs. Prerequisite: Consent of the instructor. Offered on alternate years.		
Courses in Computer Science		
110	Introduction to Computer Science	3 hpw
A foundation course in computer programming. This course introduces the student to algorithm construction, data structures, computer design and operation, and applications to various areas of study. Requires no previous experience with computer programming.		
202	Artificial Languages	3 hpw
A study of the fundamental structures of artificial languages. This course emphasizes formal definitions and specifications of syntax and semantics and compares the structures of a number of programming languages. Prerequisite: Computer Science 110.		
301	Data Structures	3 hpw
A study of the basic concepts of data organization. This course concentrates on the study of techniques for the storage and processing of information. Prerequisite: Computer Science 202. Offered on alternate years.		
302	Operating Systems	3 hpw
A study of the operation of large computer systems. This course includes the study of real-time, time-sharing, and large multi-programming computer systems. Prerequisites: Computer Science 202 and 301. Offered on alternate years.		
190, 290	Special Studies in Mathematics and Computer Science	
390, 490		
199, 299	Guided Independent Study in Mathematics and Computer Science	
399, 499		

Physics

*Associate Professors Barnes, ** Rolland*

Major in Chemical Physics

A description of the major is given under the Chemistry Program.

Courses in Physics

201, 202 General Physics	6 hpw
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Basic concepts in the classical fields of mechanics, heat, sound, light, electricity and magnetism, including introduction to modern physics. Lecture: 3 hpw; laboratory: 1 three-hour. Prerequisite: Math 121. Offered fall and spring of odd academic years.

305 Analytical Mechanics	6 hpw
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Development of new mathematical skills and deeper insight into classical mechanics are obtained through the study of the dynamics of particles and rigid bodies, harmonic oscillator, and introductory La Grangian and Hamiltonian mechanics. Lecture: 3 hpw; Prerequisites: Physics 202, Math 122.

306, 307 Waves and Electromagnetic Fields	6 hpw
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Classical analysis of periodic phenomena leads into the treatment of the electromagnetic field by Maxwell's equations. Systems treated include electro-and magnetostatics, electromagnetic waves and their interaction with matter, and radiation. Lecture: 3 hpw; Prerequisites: Physics 202, 305, Math 310.

405 Quantum Mechanics	4 hpw
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An introduction to fundamentals of quantum mechanics examining wave function, wave equation, operators, representations and perturbation theory. These tools will be applied to relatively simple systems such as the harmonic oscillator and the hydrogen atom. Lecture: 4 hpw. Prerequisites: Math 310 and Physics 307.

190, 290 Special Studies in Physics
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390, 490

199, 299 Guided Independent Study in Physics

399, 499

Science Education

313 Materials and Methods in the Teaching of High School Science	5 hpw
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This course is designed to familiarize the student with the contents and objectives of modern high school science courses and with desirable methods of presentation. Prerequisite: Introductory courses in college biology, chemistry, and physics. This course is for those students planning to fulfill the requirements of the North Carolina State Department of Public Instruction and is usually offered as part of the internship term.

***on leave of absence 1977-1978*

Health and Physical Education

Professor J. Smith (Chairman); Assistant Professors Betts, Riley, Williams

The Physical Education Program includes the major, the required program, intramural athletics, intercollegiate athletics, and informal recreational activities.

Major in Physical Education

Requirements for a major: a minimum of ten courses in Physical Education of which five must be at the 300-400 level. The major must include Physical Education 210, 211, 214, 314, and 403, and Biology 207 and Psychology 201. The major offers several career options: Teaching, adaptive work with the handicapped, and coaching.

Contract majors can be developed to suit the interests of individual students. A contract would include certain core courses in physical education, plus additional courses to be worked out with the student's advisor. The minimum number of courses in a contract would be twelve with at least five courses at the 300-400 level.

Students interested in teacher certification must include in their programs specified teacher education courses including an internship. Students with majors in Elementary Education may elect a concentration in physical education. Students with other academic majors may select appropriate physical education courses to prepare them for coaching interschool sports.

Students preparing for adaptive physical education programs for the handicapped should elect appropriate courses in biology, chemistry, and physics during the freshman and sophomore years.



Required Physical Education

Four terms of physical education activity courses are required of all degree candidates. These four activity courses emphasize preparation for "life-time sports" and, when completed, count as one of the 37 courses required for graduation. In addition, all freshmen and transfer students must demonstrate proficiency in swimming by passing a swimming test or else should enroll in Physical Education 101.

The first and second regular terms of required physical education must be specified activity courses, listed below. The third and fourth terms may be taken as follows:

1. Continuation in other activity courses.
2. Competency testing, available in selected activities each fall and spring term.
3. Contracts for credit that may be worked out with the physical education staff members in the following areas:
 - a. off-campus formal instruction by an expert in the activity.
 - b. on-campus instruction by an expert in the activity.
 - c. intramural athletics.

PE 250 (intercollegiate athletics), competency testing, and contracts are graded on a pass-fail basis.

Activity Courses (all activity courses are 2 hpw)



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|-----------------------|--|----------------------------------|
| 101 | Beginning Swimming | |
| | Upon entrance into the College all freshmen or transfer students must take a basic swimming test. If that test is failed, the student is urged to register for this class. Fall and spring terms. | |
| 103 | Adaptive Physical Education | |
| | In cooperation with a physical therapist and the physical education staff, a student with limited physical ability is placed in the adaptive program, and whenever possible, in some phase of the normal program. This course may be repeated by physically limited students to complete the one course requirement for graduation. Fall and spring terms. | |
| 110-115 | | |
| 110 | Touch Football — Soccer | 114 Conditioning and Development |
| 112 | Handball | 115 Weight Training |
| 113 | Raquetball — Squash | |
| 120-126 | | |
| 120 | Field Hockey — Volleyball | 125 Body Mechanics/Conditioning |
| 123 | Raquetball | 126 Self Defense for Women |
| 124 | Modern Dance | |
| 201-207 | | |
| 201 | Recreational Games — Bowling, Billiards, Table Tennis | |
| 202 | Badminton — Archery | |
| 203 | Beginning Golf | 207 Intermediate Swimming and |
| 204 | Volleyball | Junior Life Saving |
| 205 | Beginning Tennis | 208 Tumbling — Gymnastics |
| 301-309 | | |
| 301 | Advanced Bowling | 306 Senior Life Saving |
| 302 | Advanced Tennis | 307 Water Safety Instruction |
| 303 | Advanced Golf | 308 Advanced Badminton |
| 304 | Advanced Tumbling and
Gymnastics | 309 Squash |
| 305 | Folk Dance | 313 Advanced Weight Training |
| Theory Courses | | |
| 210 | Personal and Community Health | 3 hpw |
| | A study of health information and basic attitudes toward health practices fundamental to wholesome living for the college student. Recommended for all students. | |
| 211 | Introduction, History, and Principles of Physical Education,
Health Education, and Recreation | 3 hpw |
| | An orientation to the field of physical education, health education, and recreation. Basic principles of modern physical education and historical background, stressing aims and objectives. | |

214	First Aid and Sports Medicine	3 hpw
Basic instruction in first aid methods for the home, school, and community. A further study of the prevention, care, and reconditioning of athletic injuries. Successful completion of this course qualifies the student for the American Red Cross First Aid Certificate.		
300	Principles of Adapted Physical Education	3 hpw
An introduction into physical education for the exceptional student. Special emphasis will be placed upon understanding of physical and mental limitations and adapting the physical education program to these limitations.		
310	Organization and Administration	4 hpw
A course dealing with the policies and problems of organization and administration of Health and Physical Education and Athletic programs in schools. It includes program construction in physical education, plant facilities, scheduling load, instruction evaluation, and financing of the program. Taught in alternate years.		
311	Evaluation in Physical Education	4 hpw
A course designed to inform the student in construction and effective use of written and skills tests. Emphasis on how to compute and use the results of the test. Taught in alternate years.		
312	Team Sports: Skills and Techniques	4 hpw
A detailed study of methods, materials, and techniques of teaching team sports. Emphasis on basketball, soccer, and baseball. Taught in alternate years.		
313	Teaching Physical Education in the Secondary Schools	4 hpw
Development of courses of study, instructional units, and lesson plans for secondary schools. Observations and abbreviated teaching experiences in junior and senior high schools. To be taken in conjunction with Education 420-421 Student Internship.		
314	Kinesiology	4 hpw
This course offers an analysis of movement to provide the means to understand and apply kinesiological principles to all phases of physical activity. Emphasis includes basic anatomy and motor behavior, analysis of movement, application of kinesiology to skills and psycho-social influence on how an individual learns and improves his performance. Taught in alternate years.		
316	Individual and Dual Sports: Skills and Techniques	4 hpw
A detailed study of methods, materials and techniques used in the teaching of individual and dual sports. Emphasis on track and field, tennis and golf. Taught in alternate years.		
401	Recreation Activities and Therapeutic Exercise for the Exceptional Student	4 hpw
A practical approach to the organization and administration of recreational activities and therapeutic exercise programs for the exceptional student. Prerequisite: Physical Education 300.		

402 Physiology of Exercise

3 hpw

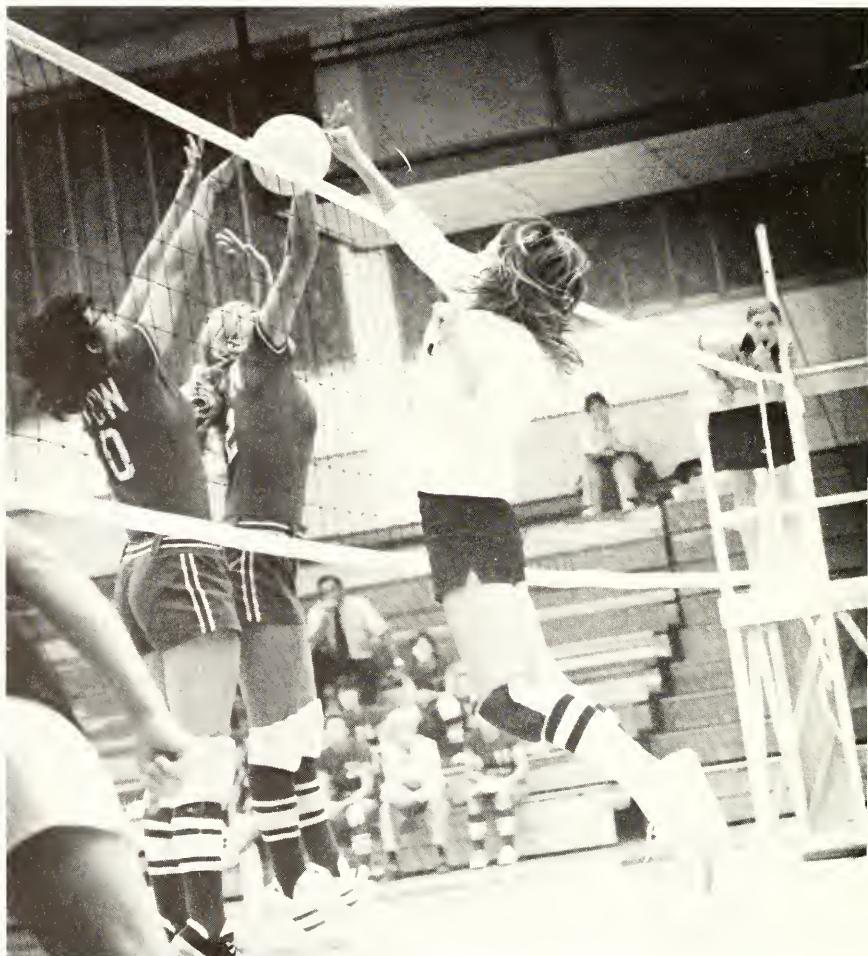
Physiology of exercise is concerned with human functions under the stress of muscular activity; thus it provides a basis for the study of physical fitness and athletic training. The course is organized into three parts: (1) selectively reviews the most pertinent areas of basic physiology; (2) relates this knowledge directly to practice in physical education; and (3) relates the principles of physiology directly to the current problems in physical education and athletics. Taught in alternate years.

403 Senior Seminar in Physical Education

Discussions in class will center on current trends and concerns in the field of physical education. Each student will do extensive study in an area of special interest.

190, 290 Special Studies in Physical Education

390, 490



W41	Teaching Health Education and Physical Education in the Elementary Schools grades 4-9	Winter Term
Principles, practices, and procedures in health education and physical education activities for the elementary school including organizing and conducting such a program. Methods and materials in group games of low organization. Required of all elementary education majors. Taught in alternate years.		
W42	Teaching Health Education and Physical Education in the Elementary Schools, grades K-3	Winter Term
This course deals with the techniques of helping children to discover their own solutions to carefully stated problems. Emphasis is on helping children understand their own body and its movement capabilities. Taught in alternate years.		

The Varsity Program

The athletic program at St. Andrews is approved by and has full membership in the National Collegiate Athletic Association (NCAA), Division 3. St. Andrews is a charter member of the Dixie Intercollegiate Athletic Conference (DIAC)—an athletic conference whose members do not award athletic scholarships.

The men's intercollegiate sports program includes:

Fall — cross country, soccer

Winter — bowling, basketball

Spring — tennis, golf, track, baseball

The women's intercollegiate sports program includes:

Fall — volleyball

Winter — basketball

Spring — tennis



Division of the

SOCIAL AND BEHAVIORAL SCIENCES

Chairman: Harry L. Harvin

Programs

Anthropology and Sociology
Business Administration
and Economics
Education
History
Politics
Psychology

Majors

Anthropology-Sociology
Accounting and Business
Business Administration
Business-Chemistry
Economics
Elementary Education
History: Folklore and Folklife Studies
General Historical Studies
Politics
Psychology

Pre-Law Concentration

St. Andrews offers a pre-law concentration for students interested in legal careers. Pre-law students may major in nearly any discipline. A pre-law adviser in the Division of Social and Behavioral Sciences assists students in planning programs of study.

Internships

The Programs in the Division offer internships to serve the career needs of St. Andrews students.

Teacher Certification

North Carolina teacher certification is available with majors in history, politics, economics and anthropology-sociology. Certification in social studies is available by taking a history major and Politics 201, Sociology 201, 205, and Economics 207, 208. Education courses that must be combined with the academic major in these programs are listed in the section under Education.

Social Science

313	Materials and Methods in the Teaching of High School History and Social Studies	4 hpw
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This course is designed for students seeking North Carolina teacher certification at the secondary level. Consideration for the content, method and technique needed in the teaching of high school history and social studies is undertaken. Credit for this course does not apply toward a major in the Division. Usually offered as a part of the internship term in Education. (See Education 313).

Anthropology and Sociology

Associate Professors Joyner, McLean (Chairman), S. Marks

Major in Anthropology-Sociology

Requirements for a major consist of 10 courses in anthropology and sociology, including Sociology 201, 321, and 421; Anthropology 205, 209, and 306 with four electives in anthropology. Competence in one foreign language, or an accepted designated substitute, is also required. The pattern of all elective courses will be determined in consultation with the faculty adviser.

Anthropology majors may contract with the Anthropology faculty for a pattern of Anthropology and related courses designed to meet their individual needs. The contract will ordinarily consist of 10 to 15 courses with a minimum of five courses at the 300-400 level. Examples of contract majors in Anthropology include the following: Anthropology and Linguistics; Anthropology and Museum Studies; Anthropology for Secondary Education; Anthropology and Ethology; Anthropology and Ecology.

Courses in Anthropology and Sociology

201	General Sociology	3 hpw
	A study of human society with emphasis on groups, institutions, social classes, social processes, and ways of thinking and living associated with group activity.	
205	Archaeology	3 hpw
	A survey of the cultures of the Indians of North America, including the languages and arts, the social, economic, and religious life, and the ecology of representative North American Indian tribes. Classroom work is augmented by site excavations and geological study. (This course, or Environmental Studies 202, will satisfy the requirements for the North Carolina Department of Public Instruction for Geo-Earth Study for elementary education.)	
207	Folklore and Folklife in American History	3 hpw
	An introduction to the use of folklore in the study of the American past. Emphasis is given to the types of verbal folklore (tale, song, riddle, proverb, etc.) and material folk culture (crafts, log cabins, folk art, etc.) found in America, their relation to European and African tradition, and their functions in the evolution of American society. (Offered also as History 207.)	
208	Introduction to Physical Anthropology	3 hpw
	The study of human evolution and of the variation in modern man including: the fossil record, evolutionary processes; development and dispersal of modern races.	
209	Introduction to Cultural Anthropology	3 hpw
	The nature of culture and society; a study of a variety of cultures on different developmental levels, including social, economic, political, educational, and religious systems and their interrelationships.	
306	Comparative Ethnology	4 hpw
	A study of the cultural configurations of non-literate peoples of aboriginal America, Asia, Oceania, and Africa.	
309	Contemporary Social Problems	4 hpw
	A study of the explanations for social change and of ways divergent values create social problems. The major areas of tension within which contemporary and social problems arise are considered.	
311	Marriage and Family Life	4 hpw
	A study of the development of these two social institutions with consideration given to such problems as woman's position, courtship, marital adjustments, safeguarding the marriage relationship, divorce, and social changes affecting the family.	
320	Social Psychology	4 hpw
	A course dealing with those topics which are common to the fields of psychology and sociology, involving both individual and group psychological behavior. It includes a treatment of social institutions and pressures which influence	

prejudices, attitudes, beliefs, and propaganda. (Offered also as Psychology 320.) Prerequisites: Psychology 201 and Sociology 201 or consent of the instructor.

321	Research Methods in Sociology and Anthropology	4 hpw
An introduction to methods of research in the social sciences, including the formulation of problems, research design, sampling techniques, and the collection and analysis of data. Prerequisites: Sociology 201 and Mathematics 205.		
333	Folklore and Oral History	4 hpw
Advanced studies in the use of oral sources, both folk and nonfolk, and of material folk artifacts in the reconstruction of the past. Emphasis is placed on field theory, interview techniques, and criticism and analysis of sources. Field research is an integral part of the course. (Offered also as History 333.)		
334	Folk and Ethnic Music of the World's Peoples	4 hpw
An introduction to Ethnomusicology with emphasis on African, native American, Eastern European, and Asian music. Attention is given to cross-cultural quantitative analysis of traditional singing styles in their social and cultural contexts, as well as folk instrumentation and acculturation theory. Ability to read music is not required.		
335	African and Afro-American Folklore	4 hpw
A comparative approach to folklore communication among Africans and Afro-Americans, studied in social and cultural context. Considerable attention is given to folklore theory.		
401	Culture and Personality (Anthropology)	3 hpw
A survey of methods and problems in studying the personality features characteristic of non-literate tribes around the world. Mutual relationships between culture and the individual are explored.		
403	American Social Structure	4 hpw
An analysis of social organization in the United States with reference to cultural norms, social stratification, and the inter-relations of social institutions. Emphasis will be placed on new trends, such as the accelerating rate of social change, and the increasing complexity of our relations with other countries. Prerequisite: Sociology 201.		
407	Ecological Anthropology	4 hpw
The study and cross-cultural comparisons of the environmental relationships of human communities. Prerequisites: Selected Topics in Modern Science 101, 102 and Anthropology 209.		
421	Anthropological and Sociological Theories	4 hpw
A survey and an analysis of contemporary social theories. The course will emphasize directed study and a seminar type of research. Prerequisite: Sociology 201.		

190, 290 Special Studies in Sociology and Anthropology
390, 490

199, 299 Guided Independent Study in Sociology and Anthropology
399, 499

Business Administration

Associate Professors Holmes, Marr (Chairman); Instructor Conerly

Major in Accounting and Business

Requirements for a major in accounting and business: 14 courses in accounting, business administration, and economics, including Business Administration 209, 210, 212, 309, 310, 315, 402, 422; and two additional upper level courses in accounting which will be done as special studies; and Economics 207 and 208. Mathematics 113 and 205 are also required.

Major in Business Administration

Requirements for a major in business administration: Eleven courses in business administration and economics, including Business Administration 209, 210, and 422; Economics 207, 208, and 303; and one winter term course. Mathematics 113 and 205 are also required for the major.

A contract major is available in Business Administration with a minimum of ten and maximum of fifteen total courses. Of this total seven courses must be in Business Administration or Economics. A basic competence in mathematics and computer programming is encouraged. The contract shall be established at the time the major is declared and shall be approved by the program faculty.

Major in Business-Chemistry

Requirements for a major in Business-Chemistry: Four courses in business administration, four courses in economics, four courses in chemistry, including Business Administration 209 and 210, Economics 302 and 303, Chemistry 201, 202, and 303, and a winter term course in one of the three areas. Mathematics 121 and 205 are also required. Electives will be chosen with aid of major advisor.

Courses in Business Administration

100 Introduction to Business

3 hpw

An introduction to business as a social activity. This course provides an understanding of business and its environment, the activities businessmen

perform and why they are performed. The application of the behavioral sciences by management is stressed. (Does not apply toward a major.)

209	Financial Accounting	3 hpw
A conceptual approach to financial accounting with emphasis on the corporate form of business.		
210	Managerial Accounting	3 hpw
Emphasis is placed upon those accounting tools which are of primary importance in decision making. Methodology found in current practice is stressed. Prerequisite: Business Administration 209.		
212	Application of Computers	3 hpw
An introduction to FORTRAN programming and to applications of the computer in disciplines related to business.		
304	Financial Management	4 hpw
A consideration of both internal and external facets of management of corporate finances. Risk, cost of capital, and capital markets are explored along with governmental controls over such financing.		
309	Intermediate Accounting I	4 hpw
An analysis of problems that arise in accounting for cash, marketable securities, inventories, equipment, and intangible assets. Prerequisite of BSAD 210 and permission of instructor.		
310	Intermediate Accounting II	4 hpw
An analysis of the special accounting problems peculiar to corporate organizations. Also the issues of price level changes, errors in financial records, and standards of disclosure will be considered. Prerequisite of BSAD 309 and permission of instructor.		
312	Marketing	4 hpw
A functional analysis of marketing and its importance as an economic activity. Current and potential institutions through which marketing is carried on are studied. Additional managerial orientation is provided through case studies and decision making practice.		
315	Business Law	4 hpw
A study of the fundamental nature of law and of laws that determine the rights and liabilities of persons taking part in business transactions. Areas covered include contracts, employment and agency, commercial paper, sales, and government-business relations.		
317	Organizational Management	4 hpw
A survey course which examines the central framework of business management, its environment, and the personal characteristics, knowledge and skills of the manager. Attention is given to behavioral and environmental as well as technical and functional details of such activities as planning, motivating, directing, delegating, and controlling business organizations, human relations, and communications.		

318	Government and Business	4 hpw
A study of relations between government and business and their effects on industrial efficiency, economic growth, and social welfare.		
320	Industrial Relations	4 hpw
Examination of the collective bargaining process, major management-union problems, and their resolution through bargaining, mediation, and arbitration.		
402	Principles of Taxation	4 hpw
A study of the major provisions of the Internal Revenue Code, its rationale, and the way it actually functions. Prerequisite: Business Administration 209.		
404	General Systems Approach to Problem Solving	4 hpw
The application of general systems theory to the solving of problems whatever their scope or origin. There are no formal course prerequisites. Majors in areas other than business and economics should find this course useful. Enrollment is by consent of the instructor. (Also offered as Economics 404.)		
408	Development and Management of Human Resources	4 hpw
Covers all areas of recruitment, placement, training, and development of lower-skilled and managerial personnel with emphasis on current problems.		
419	Quantitative Analysis	4 hpw
A survey of the mathematical techniques necessary for modern management. Topics include inventory analysis, game theory, linear programming, and optimization techniques.		
422	Seminar in Business Administration	4 hpw
Individual readings and research in a particular area of business with documentation required.		
190, 290	Special Studies in Business Administration	
390, 490		
199, 299	Guided Independent Study in Business Administration	
399, 499		

Economics

Associate Professor Marr, Instructor Conerly

Major in Economics

Requirements for a major in economics: Eleven courses in economics including Economics 207, 208, 303, 304, and 422; one winter term course; and at least two courses in business administration which must include Business Administration 209 and 304. Mathematics 113 and 205 are also required.

A contract major is available in Economics with a minimum of ten and a maximum of fifteen total courses. Of this total seven courses must be in Economics or Business Administration. A basic competence in mathematics and computer programming is encouraged. The contract shall be established at the time the major is declared and shall be approved by the program faculty.

Courses in Economics

207	Principles of Economics I	3 hpw
A survey of our economic system — production, exchange and distribution; aggregate income determination; monetary theory and policy; international trade and institutions.		
208	Principles of Economics II	3 hpw
A survey of contemporary domestic and international economic issues. Assigned readings from a variety of sources will be used.		
302	Economic Philosophy: The Development of Economic Thought	4 hpw
A survey of the development of economic analysis from Mercantilism to the Post-Keynesian era. Emphasis will be placed on Smith, Ricardo, and the British Classical School; Jevons, Marshall, and the development of Marginalism; Austrian Capital Theory, and the Neoclassical theory of money, interest, and prices.		
303	Intermediate Price Theory	4 hpw
An examination of the economic principles and theory underlying value and distribution. Application will be made of these principles particularly to the problems of perfect and imperfect competition.		
304	Intermediate Income and Employment Theory	4 hpw
The economic forces and factors determining the level of income and employment in a political economy are presented and evaluated. Emphasis on the role of government in maintaining a high level of employment and purchasing power is stressed.		

307	Environmental Economics	4 hpw
	The application of the tools of modern welfare economics to the problems of environmental decay and external costs. A re-examination of the desirability of maximizing economic growth rates. Problems of pollution of the environment and measures that have been or can be used to achieve optimal economic solutions will be emphasized.	
308	International Trade and Institutions	4 hpw
	A study of the international movements of goods and an examination of the payments systems. Attention is given to economic geography and factors such as world resources which influence economic development and international trade. Primary focus is on the composition and directions of international trade and on the application of economic theory to the international arena.	
309	Urban Economics	4 hpw
	A survey of contemporary urban problems and what cities are doing to solve them. An examination of suggested solutions to urban traffic congestion, fiscal problems, urban sprawl, zoning problems, etc.	
315	Economics of Growth and Development	4 hpw
	Analysis of the forces inhibiting economic growth in underdeveloped countries. Course includes discussion of growth models, theories of growth, development planning, economics of foreign aid, and the role of technological progress.	
404	General Systems Approach to Problem Solving	4 hpw
	The application of general systems theory to the solving of problems whatever their scope or origin. There are no formal course prerequisites. Majors in areas other than business and economics should find this course to be useful. Enrollment is by consent of the instructor. (Also offered as Business Administration 404.)	
406	The Economics of Socialism	4 hpw
	An examination of the various types of socialist economic systems. Socialism as practiced in many of the economies of today will be studied. An investigation of Marxian theory will constitute part of the course.	
408	Public Finance	4 hpw
	Principles and problems of taxation, expenditure, and debt management of federal, state, and local governments. The effects of governmental budgetary policy on resource allocation, income distribution, economic stability, and growth will be examined.	
422	Seminar in Economics	4 hpw
	The seminar is basically a research undertaking requiring extensive reading, discussion, and writing on an announced topic. A thesis related to the general topic is to be developed under the supervision of the instructor.	
190, 290	Special Studies in Economics	
390, 490		
199, 299	Guided Independent Study in Economics	
399, 499		

Education

Professors Daughtrey, Decker, Assistant Professors E. Smith (Chairman), Urie

Teacher Education

The teacher education programs described here and at other appropriate places in the catalog are approved by the North Carolina Board of Education as meeting the requirements for initial public school certification in most states. The college also maintains a student chapter of the North Carolina Association of Educators.

Teacher certification programs are available at St. Andrews in the following major programs:

Elementary Education: (Early Childhood and Intermediate level emphases).

Secondary Education; Biology, Chemistry, English, French, Spanish, Mathematics, Social Studies, (History, Politics, Economics, and Sociology-Anthropology).

Special (K-12) Programs: Music, Physical Education, and Theatre.

Supplemental Certification: Gifted and Talented; Physically Impaired.

These emphases require enrollment in any one of the above major programs plus additional course requirements as follows:

For Resource Teacher with Gifted and Talented Students:

Educ 350 Practicum in Exceptional and Special Education

Psy 314 Introduction to Counseling

Educ 351 Creating Effective Learning Environments

Educ 412 The Education of the Gifted and Talented

Educ 490 Special Education Internship

For Resource Teacher with Physically Impaired Students:

Educ 350 Practicum in Exceptional and Special Education

Biol 207 Human Anatomy and Physiology

Phye 300 Principles of Adapted Physical Education

Phye 401 Recreational Activities and Therapeutic Exercises

Educ 490 Special Education Internship

All Students in Teacher Education are Expected to Meet the Following Requirements:

- I. To be completed before entering the internship: Education 202; Psychology 201; Psychology 303 or Education 308; Education 315; Education 320 or Language 251.
- II. To be completed during the full-term internship: Materials and Methods in major area; Education 420-421 and S.A.S. 402. Students are eligible for admission to the internship, presently offered during the fall term, upon completion of at least 24 course credits.

The teacher education faculty recognizes that some students may bring previous experiences and preparation to St. Andrews or acquire them on a "non-academic" basis that should be recognized in lieu of generally expected course requirements. Other students, not primarily concerned for teacher certification, may also wish to incorporate selected Education courses into a thematic major. We welcome the opportunity to discuss the options appropriate to the interests and objectives of the student.

The North Carolina State Department of Public Instruction, with its policy emphasis on competency-based teacher education, provides institutions the flexibility to deal with experience, competencies and educational needs of students so as to maintain a balance between the integrity of each program and the individual objectives of the student.

On the basis of these factors, the student may develop alternative means, through the use of competency check lists, to complete the Elementary Education major program.

Standard Elementary Education Major

A. Early Childhood Education (K-3)

Major Core Sequence:

Anthropology 209 — Cultural or Intercultural Studies 201

Anthropology 205 — Archaeology or Environmental Studies 202

Education 320 — Reading and Other Language Arts

History 201, 202 or Politics 201 (any 2) or equivalent courses

Mathematics 207 — Real Number System

P.E. W42 — Health and P.E. for Grades K-3

Adjunct Sequence:

Art 321 — Art in the Elementary School

Education 319 — Literature for Children and Youth

English 303 — Aspects of the English Language

Mathematics 208 — Structures of Algebra and Geometry

Music 353 — Music in the Elementary School

Speech or Acting (one course)

B. Intermediate Grades Education (4-9)

Major Core Sequence:

Same as K-3, plus Art 321 or Music 353, and P.E. W41 Concentration Options — select one of the following areas; a further minor concentration may be elected in any of the remaining areas:

1. **Language Arts** — six courses

Education 319 — Literature for Children and Youth

English 303 — Aspects of the English Language

Two electives from 300/400 level English offerings

Two electives from Literature 201, 202, 204, 251, 252, 253 or two electives from Theatre 201, 202, 301, 302

2. **Social Studies** — six courses
Complete History 201/202, Politics 201 sequence not taken in Core Sequence
Two electives in 300/400 level History
Two electives in 300/400 level Politics
Economics 207 or 208
3. **Mathematics** — six courses
Math 208 — Structures of Algebra and Geometry
Math 115, 121, 221, 330 and one elective Math or Computer Science
4. **Natural Sciences** — five courses
Biology 201; 205 or 207
Chemistry 201; 202 or 301
Environmental Studies elective of Physics 201
5. Other **minor** concentration electives may be arranged in Art, Music, or Physical Education



Courses in Education

202	The American School: Foundation and Issues	3 hpw
A presentation of the historical, philosophical, and sociological foundations of the American school, together with consideration of the current trends and issues with which the future teacher should be confronted. Observations and/or projects in the public school will be included in the course. Required for all students in teacher education programs.		
209	Early Childhood Education	3 hpw
An introductory study of the organization, administration, standards, equipment, program, and parent-teacher relationships of all preschool programs through grade three. Attention is given to the organization and curriculum of a state-approved program, both public and non-public supported. A variety of field work experiences at all levels is required.		
308	Early Childhood Development	4 hpw
A study of the development needs of a child from birth through adolescence with particular emphasis on physical, mental, emotional and social growth. Guided experiences with children and a case study of one child are expected. This course is recommended for primary and elementary majors; either this or Psychology 303 is required. Prerequisite: Psychology 201 or its equivalent.		
313	Secondary Level Materials and Methods	4 hpw
Each student in a secondary or K-12 level program will enroll during the fall internship in this course as listed in his or her respective academic division. Consideration for the content, methods and resources needed in the teaching of the major subject in the public school is undertaken prior to beginning the public school assignment. All secondary level and K-12 students will also have completed Education 320 or Language 251.		
315	Educational Psychology	4 hpw
A study of individual differences, growth and adjustment, the learning process, and basic principles of guidance and evaluation. Required for all students in teacher education programs. Prerequisite: Psychology 201 or its equivalent.		
319	Literature for Children and Youth	4 hpw
A survey of traditional and contemporary literature suitable for children from preschool through intermediate age levels, together with its place and significance in the integrated curriculum. Brief teaching experiences in local public schools will be a part of this course.		
320	Reading and Other Language Arts	4 hpw
A study of the development of the language art skills, particularly reading, but including listening, speaking and writing as experienced by the elementary school child. Brief teaching experiences in local public schools will be part of this course. Students who elect this course may not take Language 251 for credit.		

322	Methods and Materials: Grades K-3	4 hpw
Methods and materials suitable for use in kindergarten through third grade programs. Required for North Carolina Early Childhood certification. Generally offered as a part of the fall internship prior to beginning the public school assignment.		
324	Methods and Materials: Grades 4-9	4 hpw
Methods and materials suitable for use in Grades 4 through 9. Required for North Carolina upper grade certification. Generally offered as a part of the fall internship prior to beginning the public school assignment.		
350	Introduction and Practicum in Exceptional and Special Education	4 hpw
This course is designed to combine readings and field experiences concerned with learning needs of an exceptional nature (gifted, talented and learning deficiencies). Both general considerations as well as special needs will be examined with particular emphasis on dealing with such learning problems in the "regular" classroom setting. Prerequisites: Psychology 201 and 303 or its equivalent.		
351	Creating an Effective Learning Environment	4 hpw
Designed to investigate the various factors necessary for establishing and maintaining effective learning environments, the study will consider assessment instruments and techniques; planning and resource skills, and a variety of instructional skills. Practical field service experiences with the typical, special and mainstreaming learning environments will be planned depending upon the interest of the student. This course replaces Education 309. Prerequisite includes Education 350.		
412	Education of the Gifted and Talented	4 hpw
A study of research findings on gifted and talented and bright underachieving students. The social, emotional, physical and intellectual characteristics of such persons will be investigated in order to focus upon the appropriate teaching/learning requirements in special and mainstreaming learning environments. This course is usually taught during the summer term. Prerequisite in Education 350.		
420-421	Student Internship	
Under the direction of a qualified public school cooperating teacher and the college, a full-time continuous teaching experience is carried out. Each student will be expected to complete at least 100 hours of actual teaching. Ordinarily, student internships will take place during the fall term, and will continue on site at the public school for ten weeks. A handbook on the Student Teaching Internship gives details on the expectations for the full term. This program carries two course credits and is equivalent to eight semester hours credit.		
190, 290		
390	Special Studies in Education	
490	Special Studies in Education (Reserved for Supplemental Certification Internships)	
199, 299	Guided Independent Study in Education	
399, 499		

History

Professor Harvin; Associate Professors Fulcher, Joyner, Melton (Chairman); Assistant Professor Schulz

Major in History

A student may satisfy the requirements for a major in history by satisfactorily completing all the requirements for 12 courses in any one of the following options:

A. General Historical Studies

History 101, 102

History 201, 202, 204

History 422 (Senior Seminar)

Six additional history courses at the 300-400 level, including one to be taken in winter term.*

B. Folklore and Folklife Studies

History 201, 202, 207

Anthropology 209

Anthropology 306, 401

History 333

History 499 (Senior Independent Study in Folklore and Folklife) Four additional history courses at the 300-400 level, including one to be taken in winter term.*

C. Contract Major

History majors may contract the history faculty for a pattern of history and related courses designed to meet their individual needs. The contract will consist of twelve to fifteen courses, with a minimum of six history courses at the 300-400 level. Typical options are American Studies, European Studies, Social Studies for Teacher Certification at the Secondary Level, history for pre-law, history and journalism, and history for museum studies.

Courses in History

Courses will not carry prerequisites except that those courses numbered at the 300 and 400-levels are restricted to juniors and seniors except by consent of the instructor.

*A second advanced winter term course in an appropriate area may be substituted for a fall or spring course upon the written approval of the history program and the student's faculty advisor.

101, 102 Western Civilization: Classical to Contemporary	3 hpw
A thematic study of cultural epochs in the development of Western Civilization from the classical period to the contemporary era. Crucial episodes in cultural crisis and creativity will be studied to demonstrate their continuing relevance to contemporary civilization. Term I: Classical to Enlightenment; Term II: Enlightenment to Contemporary. Freshman or sophomore standing required.	
201, 202 American Civilization	3 hpw
An introduction to the historical discipline designed to develop (1) a cognitive knowledge of the process of historical change in America from colonization to the contemporary era; and (2) basic skills in the principal methodologies of historical research and analysis from the perspective of both the humanities and the social sciences. Term I: Colonization to Reconstruction; Term II: Reconstruction to Contemporary. Freshman or sophomore standing required.	
204 Modern Asia	3 hpw
The political history of Asia in the modern period with emphasis on responses to the West, such as passive resistance in India, militarism in Japan, and revolution in China.	
207 Folklore and Folklife in American History	3 hpw
An introduction to the use of folklore in the study of the American past. Emphasis is given to the types of verbal folklore (tale, song, riddle, proverb, etc.) and material folk culture (crafts, log cabins, folk art, etc.) found in America, their relation to European and African tradition, and their functions in the evolution of American society. (Offered also as Anthropology 207.)	
311 Early American Culture	4 hpw
A study of ideas and institutions in the formation of early American culture. Selected topics in such fields as religion, politics, philosophy and the arts will be studied from representative sections and movements. Emphasis will be placed on the use of cross-disciplinary sources in the historical interpretation of cultural movements.	
331 The New South	4 hpw
Studies in the politics, society, and culture of the Southern United States since Reconstruction.	
332 Slavery in Comparative Perspective	4 hpw
A study of slavery in the Americas, with emphasis on the Southern United States, utilizing the methodologies of various disciplines in the humanities and social sciences. The course is developed cognitively around five general areas: 1) Slavery as a Philosophical Problem; 2) Comparative Analysis of Slave Societies; 3) The Historiography of Slavery; 4) Afro-American Folklife under Slavery; and 5) Slavery in Microcosm.	
333 Folklore and Oral History	4 hpw
Advanced studies in the use of oral sources, both folk and non-folk, and of material folk artifacts in the reconstruction of the past. Emphasis is placed on field theory, interview techniques, and criticism and analysis of sources. Field research is an integral part of the course. (Offered also as Anthropology 333.)	

348	Renaissance and Reformation	4 hpw
A cultural history of the Renaissance and Reformation developed from humanistic perspectives on European civilization in the fifteenth and sixteenth centuries. Selected topics in the social and intellectual history of these cultural movements will be studied from such sources as fine arts, literature, philosophy, and theology.		
349	The Enlightenment	4 hpw
A comparative approach to the Enlightenment as a British, French, and American cultural movement in the eighteenth century. Contributions to the fields of science, politics, and religion will be studied from the writings of such representative thinkers as Locke and Newton, Rousseau and Voltaire, Franklin and Jefferson in the social context of their times.		
353	The Age of the French Revolution	4 hpw
A study of continental Europe between 1715 and 1815 with emphasis on the decline of the Old Regime, the crisis of the French Revolution, and the reorganization of Europe under Napoleon and the Congress of Vienna.		
354	Europe in the Age of Revolution and Nationalism	4 hpw
A study of Europe from 1815 until 1890 with emphasis on the Congress of Vienna, the Revolutions of 1830 and 1848, the wars of German and of Italian unification, and the emergence of modern right wing and left wing political traditions.		
355	The Age of the First World War	4 hpw
A history of Europe from the 1890s until the end of World War I with emphasis on the backgrounds of the conflict, the military campaigns of 1914-1918, the Russian Revolution, the impact of the automobile and the airplane, the impact of technology industrialism, and developments in science, religion, and the social sciences.		
356	The Age of the Second World War	4 hpw
A study of the backgrounds of World War II, the military campaigns of 1939-1945, the home fronts, Nazi occupation regimes, resistance movements, propaganda, wartime diplomacy, the role of science, and the impact of total war on modern society.		
371	Soviet Russia	4 hpw
A study in depth of the Russian Revolution of 1917 and the evolving Communist state, dealing with both the internal development of the Soviet state and its foreign relations.		
404	Twentieth Century America	4 hpw
Studies in American history in the 20th century with emphasis on domestic political, social, and economic problems and the growing involvement of the United States in world affairs.		
422	Senior Seminar in History	4 hpw
Selected readings and discussions in historiography and philosophy of history, along with individual research projects and class critiques.		

190, 290 Special Studies in History

390, 490

199, 299 Guided Independent Study in History

399, 499

Politics

Associate Professor Bushoven; Assistant Professors Fouke and Schulz (Chairman)*

Major in Politics

The Politics Program has no set program to which all majors must adhere. Instead the Politics Program operates a contract system under which students can initiate major programs tailored to their own academic needs and goals. The major requirements in politics therefore consist of a standard or individualized contract which includes all other degree requirements and which is mutually acceptable to the student and to the faculty in politics. The acceptance of a student as a major in politics includes the acceptance of his or her contract. The contract will become part of the student's permanent record and any changes in the contract must be approved by the student and the faculty in politics.

The standard contract in politics establishes a program of study which requires the completion of ten to fourteen related courses. When appropriate, a major will be encouraged to develop skills in computer use, mathematics and/or language. Students have initiated contracts in such areas as International Studies, Practical Politics, Political Psychology, and Pre-Law (see below). They have also combined their interests with other disciplines such as Anthropology, History, Education, Economics, Philosophy, and Psychology. The faculty in politics will supply additional information on the major.

For Pre-Law Students

St. Andrews offers a pre-law concentration as a preparation for career opportunities in state and local governments, public administration, criminal administration and rehabilitation, becoming an attorney, and becoming a para-legal assistant. Pre-law students may elect any major program, and are encouraged to take courses in a wide variety of subjects.

*on sabbatical leave 1977-78.

In politics the student may take Introduction to Law, Legal Reasoning, Advanced Studies (with selected emphasis on the judicial process), and Special Studies in Criminal Justice. The student is strongly encouraged to work closely with the pre-law advisor and to take internships with an agency or with a practicing attorney.

Internships

The politics program has had 12 state and local interns in government and various agencies in the past two years. Students are regularly placed as interns with the Laurinburg City manager, the Scotland County Manager, and state legislators. Work has included the preparation of bills, testimony before committees, study of the possibilities of waste recycling in the county, and the consolidation of various planning reports into one overall plan for the city. Application is made to the Politics program and those selected enroll in Politics 361.

Courses in Politics

201	Introduction to American Politics	3 hpw
An introduction to American government and to the discipline of political science designed (1) to develop an understanding of how the American political system functions, (2) to indicate possible changes which may occur in the American political system, (3) to stimulate an awareness of why some political events occur and others do not, and (4) to encourage the development of a perspective from which political events can be evaluated.		
211	Introduction to International Politics	3 hpw
An introduction to the political relations of nations, including theories and levels of analysis. Use of case studies and simulation gaming to explore normative issues in both contemporary and preferred future global systems.		
231	Introduction to Law	3 hpw
An introduction to law and its function in a changing society. Areas studied include judicial process and judicial behavior. Field trips to trials, correctional institutions, etc.		
252	Introduction to Comparative Government	3 hpw
A comparative study of institutions and functioning elements, such as political parties and elections, in similar and dissimilar political systems. Methods of comparative political analysis with primary focus on European nations.		
275	Politics and Personality	3 hpw
An introductory analysis of the psychological factors which influence and condition individual political behavior.		
280	Politics and Environment	3 hpw
An examination of the relationship between political systems and such selected environmental factors as technology, cultural norms and values.		

structures of dissent and communication, finances, and ecology. Emphasis on social impact analysis.

303	Urban Politics	4 hpw
Analysis of contemporary urban politics and problems.		
312	Legal Reasoning	4 hpw
Analytical and critical studies of constitutional law. Topics studied include judicial review, federalism, civil and political rights, due process and equal protection. Case study method.		
321	Western Political Thought: Classical to Modern	4 hpw
A study of the classics in Western political thought from Plato to the present. Emphasis is placed on their relationship to contemporary conditions. Original texts are used.		
323	Marxian Political Analysis	4 hpw
Grounding in the basic texts, Marx to Mao, and basic concepts. Analysis of contemporary national and international politics from a Marxist perspective.		
339	War and Peace	4 hpw
A study of the historical, psychological and social roots of war and the contemporary issues of peace. Introduction to problems of research in peace and conflict studies. Areas investigated include arms control and disarmament, international organization, and preferred futures modeling.		
342	Foreign Policy Processes	4 hpw
Detailed study of the governmental machinery and external influences on the formulation and implementation of foreign policy.		
356	Asian Politics	4 hpw
A critical examination of modernization theory and a comparative analysis of political structures and processes of change in selected countries of Asia.		
357	African Politics	4 hpw
A comparative analysis of the politics, history, and culture of Africa.		
361	Internships	
The assignment to a public or quasi-public official for an on-the-job experience with political institutions. Interns have served with the city manager, the county manager, the county attorney, a state representative, the State Commission on Women, and other institutions and organizations. Selected by the staff of the politics program.		
380	Advanced Studies in American Politics	4 hpw
A rigorous examination of American politics with selected emphasis on such topics as the presidency, federalism, mass media, parties and pressure groups, legislative behavior, and judicial process.		

422	Senior Seminar in Politics	4 hpw
A program of directed study for advanced students providing an opportunity for reading and research on topics of special interest in the field of political science and including group discussions on topics of current concern. For politics majors only. Required of all majors.		

190, 290 Special Studies in Politics
390, 490

199, 299 Guided Independent Study in Politics
399, 499

Psychology

Professor A. Smith (Chairman); Associate Professor Thomas; Assistant Professors Brown, Uriel

Major in Psychology

Requirements for a major: Ten Courses in psychology which must include Psychology 201, 202, 303, 305, 320, 401, and 411 and Mathematics 205. In addition competence in one Foreign Language is expected. (Four courses in mathematics may be substituted for the language requirement.) All courses numbered above 300 and above require 201 and 202 as prerequisites except as noted in the description.

Contract Major in Psychology

For students whose needs are different from the standard major in Psychology, a contract major may be arranged. The contract major requires Psychology 201 and at least six courses in Psychology at the 300 or 400 level. The contract major is arranged in consultation with the faculty advisor and the psychology faculty. Some examples of contract majors might be, Psychobiology, Psycholinguistics, Psychology and Business, Psychology and Music, and others as appropriate to the needs of individual students.

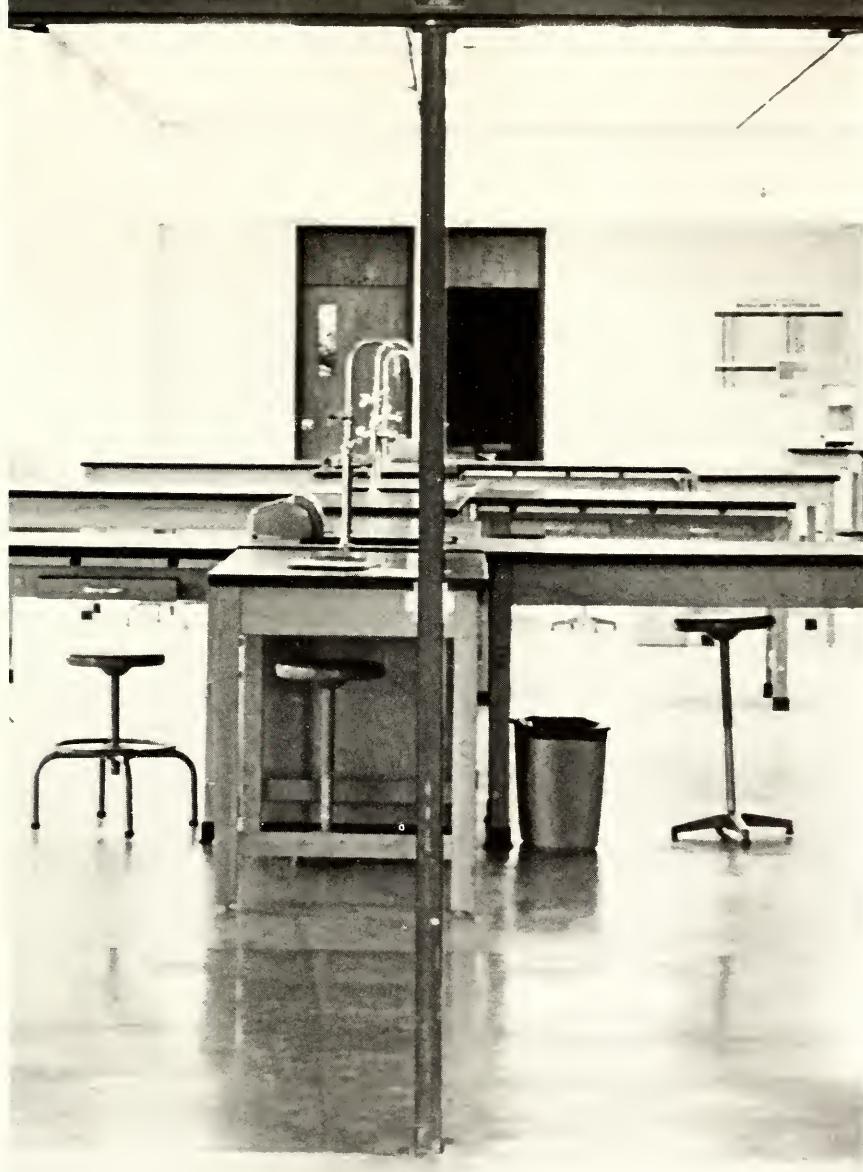
Courses in Psychology

100	Human Behavior: An Introduction	3 hpw
This course is designed to provide an introduction to the understanding of human behavior. Topics to be covered include: motivation, human adjustment, attitudes, prejudices, value patterns, personality, and personality development. The total thrust of the course will be the study of one's self and the ways one relates to his environment.		

201	Introduction to Psychology	4 hpw
An introduction to the study of scientific psychology with an emphasis on such topics as learning, motivation, thinking, memory and pathological behavior. Two hours lecture and two hours laboratory weekly.		
202	General Experimental Psychology	5 hpw
A consideration and laboratory investigation of such selected topics as behavioral assessment, measurement, perception, sensation, motivation, and experimental control. Intended primarily for students planning to major in psychology. This course may be selected by others desiring a more adequate foundation in psychology as a science. Three hours lecture and two hours laboratory weekly. Prerequisite: Psychology 201 and Mathematics 205 or 113 or its equivalent.		
303	Developmental Psychology	4 hpw
An assessment of the areas of development in childhood and adolescence with special emphasis upon case materials. Experiences will be planned for observation and reporting on children at various ages in keeping with the particular concerns of the student. This course is required by all students in teacher education, except that primary level elementary majors may substitute Education 308. Interest groups will be formed around four areas: early childhood, children, adolescents, atypical persons. Prerequisite: Psychology 201 or consent of instructor.		
304	Behavior Pathology	4 hpw
An investigation of the factors, processes and conditions which cause personality deviations (neuroses, psychoses, mental deficiencies). Also, abnormal behavior patterns are identified and appropriate therapeutic techniques are considered. Prerequisite: Consent of instructor.		
305	History and Systems of Psychology	4 hpw
A careful study of the history of psychology and the approach of the various systems of psychology to the study of human and animal behavior.		
314	Introduction to Counseling	4 hpw
The purposes, processes, organization and resources for guidance and counseling are considered. Special attention will be given to understanding and dealing with adjustment problems, including consideration of some case studies and a practicum in counseling techniques.		
316	Human Learning	4 hpw
An investigation of how human beings learn and develop information about their environment and how this information is utilized in learning with emphasis upon various theories of learning. Offered on demand on alternate years.		
320	Social Psychology	4 hpw
A course dealing with those topics which are common to the fields of psychology and sociology, involving both individual and group psychological behavior. It includes a treatment of social institutions and pressures which influence prejudices, attitudes, beliefs, and propaganda. Offered each spring.		

401	Theories of Personality	4 hpw
This course involves a study of the theories and dynamics of personality development. It seeks to help the student discover those factors and processes which contribute to personality development, with particular emphasis upon the well-adjusted personality.		
411	Seminar in Psychology	4 hpw
Class sessions emphasize the history and current trends in special areas of psychology. Field trips and brief laboratory sessions in the Career and Personal Counseling Center and similar agencies will be planned. An emphasis on independent study characterizes this program. Prerequisite: Psychology 401 and consent of the instructor. Offered each spring.		
415	Psychological Research	4 hpw
A study of the major problems of doing research in the area of psychology and some advanced knowledge of experimental design. The student will be expected to design and execute at least one major research project as a part of this course. Prerequisites: At least six courses in psychology. Offered on demand in alternate years.		
420	Advanced Social Psychology	4 hpw
An advanced study of the psychological processes in social psychology 320 with an emphasis upon research investigations of social processes and the study of individual and group social behavior. Prerequisite: Psychology 320, offered on demand in alternate years.		
190, 290	Special Studies in Psychology	
390, 490		
199, 299	Guided Independent Study in Psychology	
399, 499		
Junior and Senior Honors Courses		
Junior Honors in Psychology		Winter Term
An investigation of research literature in psychology. Admission by nomination only.		
Senior Honors in Psychology		Winter Term
A research investigation of a psychological topic. Admission by nomination only.		

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Paul Baldasare, B.A., *Administrative Coordinator*

Dean of the College

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Veronica Newman, B.S., M.S., Ph.D., *Administrative Coordinator for Academic Affairs*

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Dean of Students

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Robert F. Davidson, Dean Emeritus

B.A., Davidson College; M.A., Oxford University; Ph.D., Yale University

Louis C. LaMotte, Professor of Greek and Director of Summer School Emeritus

B.A., Presbyterian College of South Carolina; M.A., University of South Carolina; B.D., Columbia Theological Seminary; Th.M., Princeton Theological Seminary; Th.D., Union Theological Seminary; D.D., Presbyterian College

James E. Carver, Professor of English Emeritus

B.A., University of Richmond; M.A., University of North Carolina at Chapel Hill; Ph.D., New York University

Carol Robertson, Professor of History Emeritus

B.S., George Peabody College; M.A., Columbia University

Ethel Bateman, Associate Professor of Physical Education Emeritus

B.A., Winthrop College; M.A., Columbia University

Margaret W. Bowen, Associate Professor of Religious Education Emeritus

B.A., Mary Baldwin College; M.A., Columbia University

Genevieve M. Neighbors, Associate Professor of Education and Social Science Emeritus

B.A., Flora Macdonald College; B.A., University of North Carolina at Chapel Hill

Leta W. McIntyre, Associate Professor of Business Education Emeritus

B.S., Winthrop College; M.Ed., University of North Carolina at Greensboro

PROFESSORS

William M. Alexander, Professor of Philosophy and Religion (1961)

A.B., Davidson College; S.T.M., Harvard Divinity School; Ph.D., Princeton Theological Seminary

Carl D. Bennett, Professor of English and Division Chairman (1959)

B.A., M.A., Ph.D., Emory University

Philip Leslie Bullock, Professor of Religion (1948)

B.S., North Texas State College; B.D., Th.M., Th.D., Union Theological Seminary in Virginia

John P. Daughtrey, Professor of Education and Psychology (1956)

B.S., University of Virginia; M.S., University of North Carolina at Chapel Hill; Ed.D., University of Florida

- Rodger W. Decker, Professor of Education and Psychology (1952)
B.A., Hope College; M.A., State University of New York at Albany;
Ed.D., Columbia University
- Harry L. Harvin, Professor of History and Politics and Division Chairman (1960) B.A., Wofford College; M.A., Ph.D., Duke University
- Herbert A. Horn, Professor of Piano (1963, 1969) B.M., DePaul University; M.M., D.M.A., University of Southern California
- G. Tyler Miller, Jr., Professor of Chemistry and Human Ecology (1966) (On leave, 1977-78) B.S., Virginia Military Institute; M.S., Ph.D., University of Virginia
- Helen Rogers, Professor of Music Theory (1955) B.M., Susquehanna University, M.M., Northwestern University; Ph.D., Indiana University (retired 1977)
- Alvin H. Smith, Professor of Psychology (1965)
B.A., M.Ed., Ph.D., University of Missouri
- Julian L. Smith, Professor of Physical Education (1972)
A.B., M.A., University of North Carolina at Chapel Hill; Ph.D., Ohio State University
- W.D. White, Professor of English and Religion (1965) B.A., M.A., Baylor University; Ph.D., University of Texas (English); M.A., Ph.D., Princeton University (Religion)

ASSOCIATE PROFESSORS

- Donald G. Barnes, Associate Professor of Chemistry and Physics (on Leave 1977-78) B.A., College of Wooster; Ph.D., Florida State University
- Ronald H. Bayes, Writer-in-Residence and Associate Professor of English (1968) B.S., M.S., Eastern Oregon College; University of Pennsylvania, 1959-60
- Margaret W. Bennett, Serials Librarian and Cataloger (1960) B.A., Valdosta Stage College; A.B. in L.S., Emory University
- Cornelius Bushoven, III, Associate Professor of Politics and Director of St. Andrews Studies (1969) A.B., Davidson College; M.A., Ph.D., Duke University
- Ronald C. Crossley, Dean of the College and Associate Professor of Religion (1968) B.A., Samford University; B.D., Southern Baptist Theological Seminary; Ph.D., Duke University
- Brad Ford, Associate Professor of Theatre, (1976) B.A., Wayne State College M.F.A., University of Southern Mississippi
- J. Rodney Fulcher, Associate Professor of History (1962) B.A., Duke University; M.A., Ph.D., Princeton University
- Carl W. Geffert, Associate Professor of German and Coordinator of Winter Term and off-campus projects (1963) B.A., University of Virginia; M.A., University of California

- Elizabeth A. Holmes, College Librarian (1966) B.A., M.A. in L.S., Florida State University
- James D. J. Holmes, Associate Professor of Business Administration (1969) B.A., M.S., University of Alabama; C.P.A., State of Mississippi
- Charles W. Joyner, Associate Professor of History (1966) B.A., Presbyterian College of South Carolina; M.A., Ph.D., University of South Carolina
- Arthur W. McDonald, Associate Professor of Speech and Theatre (1962) B.A., University of Georgia; B.D., Union Theological Seminary in Virginia; M.A., University of North Carolina at Chapel Hill; Ph.D.; Indiana University
- David A. McLean, Associate Professor of Anthropology (1962) B.A., Davidson College, B.D., Union Theological Seminary in Virginia; M.A., Ph.D., University of Witwatersrand
- Stuart A. Marks, Associate Professor of Anthropology (1970) B.S., North Carolina State University; M.S., Ph.D., Michigan State University
- John Michael Marr, Associate Professor of Business and Economics (1977) B.A., Presbyterian College; M.S., Ph.D., Clemson University.
- George E. Melton, Associate Professor of History (1968) B.S., Davidson College; M.A., Ph.D., University of North Carolina at Chapel Hill
- William H. Morgan, Associate Professor of Mathematics (1961, 1970) B.S., Appalachian State University; M.Ed., University of North Carolina at Chapel Hill; Ed.D., University of Georgia
- Catharine E. Neylans, Associate Professor of French (1958) B.A., Wesleyan College; M.A., Ph.D., University of North Carolina at Chapel Hill
- Richard C. Prust, Associate Professor of Philosophy (1967) B.A., University of Wisconsin; B.D., Yale University; Ph.D., Duke University
- William W. Rolland, Associate Professor of Computer Science and Director of the Computer Center (1968) B.A., King College; Ph.D., Duke University
- William H. Somerville, Associate Professor of Mathematics (1971) B.A., King College; Ph.D., University of North Carolina at Chapel Hill
- Alfred E. Thomas, Director of the Career and Personal Counseling Center and Associate Professor of Psychology (1970) Part-time B.A., Davidson College; B.D., Union Theological Seminary in Virginia; Ph.D., University of North Carolina at Chapel Hill
- David E. Wetmore, Associate Professor of Chemistry and Division Chairman (1967) B.A., Park College; M.A., University of Kansas; Ph.D., Texas A & M University
- David Wilkins, Associate Professor of Music (1976) B.S., Northern Illinois University; M.A., M.M., George Peabody College for Teachers

John E. Williams, Associate Professor of Organ (1951) B.M., Oberlin Conservatory of Music; M.M., University of Michigan

ASSISTANT PROFESSORS

Arthur L. Applegate, Assistant Professor of Biology (1970) B.S., Wake Forest University; M.S., University of South Carolina; Ph.D., Emory University

Karen K. Barnes, Assistant Professor of Chemistry (1967, 1976), Part-time, B.A., College of Wooster; Ph.D., Florida State University (On Leave 1977-78)

M. Dean Betts, Assistant Professor in Physical Education for the Handicapped, (1975), B.S., East Carolina University; M.A. Ed., East Carolina University.

Cheryl J. Brown, Assistant Professor of Psychology (1976) B.A., M.S., Eastern Michigan University; Ph.D., University of Toledo

Emily J. Ellsworth, Assistant Professor of Music, Part time (1977) B.A., Macalester College; M.M., University of Southern California

George L. Fouke, Assistant Professor of Politics (1969) B.A., Lafayette College; M.A., University of Pennsylvania; Ph.D., University of Colorado

Lee R. Kesselman, Assistant Professor of Music, Part time (1977) B.A., Macalester College; M.M., University of Southern California

Judith M. Knight, Assistant Professor of Chemistry (1976) B.S., Muskingum College; M.S., Wayne State University; Ph.D., University of Wisconsin-Milwaukee

William James Loftus, Assistant Professor of French (1974) B.A., University of Scranton; M.A., Ph.D., Pennsylvania State University

Luther Spencer Ludlow, Jr., Assistant Professor of Philosophy (1962) B.A., Mercer University; M.Div., Union Theological Seminary in New York; Duke University, 1960-62

Edna Ann Osmanski, Assistant Professor of English (1977) A.B., Sweet Briar College; M.A., Ph.D., Princeton University

Lawrence E. Schulz, Assistant Professor of Politics (1971) B.A., University of Redlands; M.A., Ph.D., Claremont Graduate School and University Center

O. Eugene Smith, Assistant Professor of Education and Chairman of Teacher Education Program (1975) B.S., M.A., West Virginia University, Ph.D., University of Maryland

James F. Stephens, Registrar, Associate Dean of the College and Assistant Professor of Chemistry (1969) B.S., West Virginia University; M.S., Marshall University; Ph.D., University of Tennessee

Michael A. Torres, Assistant Professor of Biology (1977) B.S., Angelo State University; Ph.D., Texas A & M University

- Robert M. Uriel, Assistant Professor of Special Education (1961) B.A.,
Monmouth College; M. Div., Pittsburgh Theological Seminary;
M.S., Ph.D., University of North Carolina at Chapel Hill
- Jo Ann Williams, Assistant Professor of Physical Education (1966)
B.A., High Point College; M.Ed., University of North Carolina at
Chapel Hill
- B. Anne Woodson, Assistant Professor of Art (1977) B.A.,
Southwestern at Memphis; M.A., Villa Schifanoia, Florence, Italy

INSTRUCTORS

- Rooney L. Coffman, Instructor in Science Laboratories and Director of
Logistics (1968) B.A., St. Andrews Presbyterian College
- William B. Conerly, Instructor in Economics (1977) B.A., New College;
M.A., Duke University
- Thomas H. Jones, Instructor in Biology B.S., Methodist College; M.S.,
North Carolina State University
- Garrett E. Paul, Instructor in Religion (1976) A.B., Wabash College;
A.M., University of Chicago

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Additional information about academic scholarships may be found on page 20 of this catalog. A listing of the donors who endow such scholarships is on pages 130-133.



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SOPHOMORE HONORS, SOPHOMORE SCHOLARS — Each spring the College awards Sophomore Honors to students who have earned an average of 3.0 or better through the winter term of their sophomore year. From this group the College selects those with highest academic records as Sophomore Scholars, a distinction that also carries a \$500 scholarship award.

Sophomore Scholars for 1976-77

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Barbara A. Branges, Rockville, Md.
Holly D. Carastro, Pensacola, Fla.
Cathy A. Davidson, Bluefield, W. Va.
Stephen D. Fox, Alexandria, Va.
Charles M. Greene, Jr., Columbia, S.C.
H. Nadine Greenwood, Lynchburg, Va.
LuAnne Holt, Allendale, S.C.
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William S. Lowery, Jr., Camden, S.C.
Gibbs R. Moody, Richmond, Va.
May L. Moore, Cary, N.C.
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Cheryl S. Shapiro, Naples, Fla.

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Marie L. Buffaloe, Garner, N.C.
Mynell J. Clarke, II, Southern Pines, N.C.
Rebecca L. Copeland, Raleigh, N.C.
Laurel A. Hall, Ellenboro, N.C.
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ST. ANDREWS HONOR SOCIETY — Honor Society membership is awarded to junior and senior students who have earned an overall average of 3.25 or better on 18 courses at St. Andrews. Members serve as marshals at convocations and special events, and members who are juniors serve as marshals at Commencement.

Honor Society Members for 1977

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Baldasare Jr., Paul	Jacobs, William A.
Ballance, Charles R.	Jones, Robyn
Banks, Yana S.	Kauffman, R. Randall
Beal, Margaret G.	McChesney, M. Kathryn
Beck, Beverly D.	McGee, Sharon L.
Bradford, Frances K.	McNair, John E.
Buffaloe, Marie L.	Montgomery, Linda K.
Clarke, Mynell J., II	Niblock, Henry D.
Coggins, Marsha A.	O'Toole, Dennis
Dodds, John T., II	Patterson, J. Hunter
Drumheller, Laura L.	Peterson, Larry E.
Ferrell, Martha A.	Peterson, Olga M.
Gillenwater, Robert W.	Phipps, Elizabeth B.

Spann Jr., Cyril O.
Speight, Marie B.
Stewart, Ann A.
Swain, Stuart F.

Thompson, Lindsay T.
Titterington, Robin J.
Whitley Jr., Richard E.

HONOR GRADUATES — At Commencement St. Andrews bestows special recognition upon those students whose academic work has been of superior quality. To those with an average of 3.50 or better, degrees are awarded with honors. To those with an average of 3.75 or better, degrees are awarded with high honors. Transfer students will be evaluated for honors on an individual basis by the Faculty.

High Honors of the Class of 1977

Carolyn Jamerson Guthrie, Laurinburg, North Carolina
Robyn A. Jones, Laurinburg, North Carolina
Ellen F. Perkinson, Laurinburg, North Carolina

Honors

Charles R. Ballance, Atlanta, Georgia
Paul Baldasare, Jr., Atlanta, Georgia
Margaret G. Beal, Greensboro, North Carolina
Beverly D. Beck, Fayetteville, North Carolina
Miriam K. Calhoun, Salisbury, North Carolina
Laura L. Drumheller, Warrenton, Virginia
Martha A. Ferrell, Fayetteville, North Carolina
Elisabeth Flowerree, Washington, D. C.
Sharon L. McGee, Mebane, North Carolina
John E. McNair, Atlanta, Georgia
Linda K. Montgomery, New Bern, North Carolina
John H. Patterson, Dublin, Georgia
Elizabeth Phipps, Raleigh, North Carolina
Stuart Francis Swain, Tucker, Georgia
Robin J. Titterington, Bordentown, New Jersey

ENDOWED SCHOLARSHIP AND LOAN FUNDS

ENDOWED SCHOLARSHIP AND LOAN FUNDS

Through the generosity of friends of St. Andrews, together with funds established earlier at Flora Macdonald College and Presbyterian Junior College, either as living tributes or memorials, the College is building an endowment that is providing a measure of permanent support helping to insure the ongoing work of the College.

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Other funds of at least \$1,000 have been given for endowment purposes in the name of the following:

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Scholarships

The following named scholarship funds of at least \$10,000 have been established:

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The Belk Memorial Scholarship Fund
The Anne Blue Tucker Scholarship Fund
The John Blue Scholarship Fund
The Della Martin Campbell Scholarship Fund
The William Ralston Campbell Scholarship Fund

The Robert F. Davidson Scholarship Fund
The Ruth and Mary Fitzgerald Student Aid Fund
The E. L. Gaither Scholarship Fund
The Emma Lillian Keigwin Scholarship Fund
The Knight Foundation Scholarship Fund
The McLaurin Brothers (J. W., Thomas H., Roy and Ed) Memorial Scholarship Fund
The Almena Currie McLean Student Aid Fund
The Mildred McLaurin McLean Memorial Scholarship Fund
The Ellen McNeill Scholarship Fund
The Frank Mizell Scholarship Fund
The Edward M. O'Herron, III Scholarship Fund
The Charles W. Perry Scholarship Fund
The Robert C. Quantz Memorial Scholarship Fund
The Reader's Digest Endowed Scholarship Fund
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The Lucy Steele Scholarship Fund
The Charles H. Trexler Memorial Scholarship Fund
The Roy Edward Watts Scholarship Fund
The J. Harvey White Memorial Scholarship Fund

Other funds of at least \$1,000 have been given for scholarship purposes in the name of the following:

David L. Alexander
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Dr. David McBryde
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Daniel Archibald McCormick
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Rockingham First Presbyterian Church
Jessie Schoellkoff
The Sinnott Scholarship
Henry Lee and Delia O. Sneed
Thomas Stamps

Mr. and Mrs. J. D. Stewart
Leroy A. Stadler
Charles G. Vardell
Katherine Allen and Jane Dickson Bell Vardell
Linda Vardell
Leo and Ella Wallace
Mary Gale Carter White
Jessie Chandler Willard
Marion Stokes Williamson
Elizabeth Yongue

Loan Funds

The following named loan funds of at least \$10,000 have been established:

The Jennie E. Alexander Loan Fund
The James Madison Graham Memorial Loan Fund
The T. M. Stanback Loan Fund

Other funds of at least \$1,000 have been given for loan purposes in the names of the following:

Andrew Bryson
Dr. Darius Flinchum
J. F. McNair
J. L. McNair
The Masonic Order
Dr. O. L. Parker
The Smyth Family
Julia Stewart
Mrs. J. D. Swinson
Mrs. Emma G. Thorpe

Form of Bequests

Since each state has special statutory regulations regarding wills, it is most important that all testamentary papers be signed, witnessed, and executed according to the laws of the state in which the testator resides. In all cases, however, the legal name of the corporation must be accurately given as in the following form:

"I give, devise, and bequeath to ST. ANDREWS PRESBYTERIAN COLLEGE, INC., a North Carolina corporation, located at Laurinburg, North Carolina, the sum of \$_____ (or property herein described) to be used by its Board of Trustees as they may deem advisable for the benefit of the College."

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Special Note

The College reserves the right to make changes in particular curricular requirements and offerings, in regulations, and in fees whenever such changes are deemed essential. College catalogs and bulletins are prepared to furnish prospective students and other interested persons with information about the institution. Announcements contained in such printed material are subject to change and may not be regarded as legally binding obligations.



A black and white photograph showing the exterior of a modern concrete building. The building has a textured, rough-surfaced wall on the left. The words "MORGAN-JONES SCIENCE CENTER" are engraved in capital letters on this wall. To the right, there is a dark, recessed entrance area where two people are standing. The building is surrounded by trees and shrubs.

MORGAN-JONES
SCIENCE CENTER

1977-78
Laurinburg, North Carolina

